Notebook, N-06-09-05

This undated notebook, which was probably used during October 1906, is a continuation of N-06-09-01.2. It was used by Edison and an unidentified experimenter to record notes regarding the preparation of iron compounds for storage battery experiments. Most of the entries also indicate preliminary test results from cells using the iron compounds. Several of the entries note the involvement of Otto Groethe. The front cover is labeled "Entered Iron 2851 to 4193." The pages are unnumbered. Approximately 290 pages have been used.

1	525	525
	500	492
	500	480
	237	237
	229	233
	484	470
	500	455
	490	435
	590	580
	665	585

made

2851 5 grms. of a mix compared
of 24 Reg mix. of 6 grms.
2852 Nickel flake - not rolled
just mixed

565	532
542	540
560	570
246	308
250	292
500	570
480	515
450	520
480	517
515	560

Made

2853 ~~Organic~~ —
Compound of a mix
of Reg 7/2 - 24 grammes
9 " Nickel flake
moistened slightly + rolled —

Wt 5.202

2854 Wt 5.186

1	770 8	635
	800	650
	925	700
	608	500
	650	533
	962	510
	948	760
	1027	900
	900	765
	927	510

Mod 2

2855 5 grains -
~~[illegible]~~ of admixture of 24 grains Reg
Fe mix - 4.5 grains Cobalt oxalate -
moistened slightly with water -
rolled

wt 5.140

2856 wt 5.195

1	690	410
	525	305
	500	290
	333	96
	300	84
	462	300
	393	230
	490	300
	100	200
	230	230

500 g

200

2 3 25 g

19 g

Made

2857 - 5 grams of Ra 759 -
2858 Gently 88% Fe 12% Cu 5% Mgo. -

Mix 20 grams of this with 7 grams Cobalt of Idaho - Dry. - or put in 5 grams in each pocket -

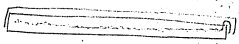
1290	1180
1262	1060
1312	1107
1227	1808
1167	1100
1450	1327
1325	1265
1457	1360
1500	1485
1565	1500
1445	1370
1250	1300
1383	1317
1550	1495

S

Mode

.2859 2 Fe plate Reg mix

2860 with ½ of the mix in then a perforated strip put on it then other ½ of mix put in pressed ref because the central piece is bolt are the inside perfect to insure contact



15

660	645
625	535
570	450
333	237
417	262
600	460
600	452
625	477
425	560
442	600

Made

2861 2 7% white reg mix

2862 8 gms Fe

2 " Nickle 1/2 reg thickness

Dry mix

15

1	750	690
	740	675
	710	630
	412	375
	512	592
	700	650
	690	652
	700	682
	440	685
	485	720

made

2863 2 Fe plates e.g. mix

8 grams Fe mix

2 " 1/8 sticks 1/2 ser thickness

moistened water

2864

1	1100	1000
	950	940
	957	900
	625	200
	417	658
	980	930
	945	860
	1055	935
	1100	1000
	1145	1030

2865 2 Fe spots rep mine

2866 9 grams Fe [illegible]

1 " Ni flake ½ sq thickness

Dry mine

900	990
882	950
890	970
850	600
600	733
875	885
990	940
865	1000
964	972
895	1000

2867 2 Fe pellets reg mix

9 grams Fe mix

1 " Ni flake ½ reg thickness

moist with water

2868

1570	1600
1300	1300
1500	1480
1217	1142
1350	1342
1400	1370
1572	1500
1572	1540
1700	1675
1700	1645
1540	1480
1354	1250
1375	1308
1555	1550

2869 }
2870 } 5 grms.

38 Drl.

20% Bi 80 Fe - non pyrophoric, 5% Hgo

8) 1587
198.5 1/8
198.5 1/8 100% Fe

1	1525	1517
	1465	1460
	1535	1480
	1133	1127
	1458	1296
	1545	1510
	1590	1590
	1432	1545
	385	360
	462	465

?

2871 No46 Dr. 9. 5 grams
2872

80 Fe 10 Bi 20 Sb.
5% Hgo — Self heated.

80
10
20
5
115 | 800 | 70%
805

3.5 grams

3.5 | 1522 | 435
40
12
10
2
14
5

435 Mol/per gram Fe

8	2492	1350
	290	220
	300	260
	233	217
	250	223
	255	245
	340	300
	350	300
	300	220
	256	232

?

2873 N042 Dr. 1.
2874

80 Fe
10 Bi
20 Molybdenum –
5% HgO –

Nonpyrophoric

1.	1510	1380
	122	100
	180	175
	147	167
	150	142
	230	240
	295	282
	382	385
	360	390
	400	455

2875 42 Dr. 9. 5 grm
2876 Seafhazard

80 Fe
10 Bi
20 Molybdenum
5% H_2O —

Molybdenum not given

1st

—	1557
196	2170
1695	1825
1833	2167
2000	1704
1858	1920
2025	2195
2050	1960
2010	2160
2000	1800
1775	1600
1417	1217
633	517
455	457
1590	2000
1325	1400
1212	1162
1325	1475
1355	1712
890	955 — What to Hold

Something wrong

512 Matt per gram Fe

2877 } No 40 Dr. J. 5 grm
2878 }

80 Fe
20 Tin –

5 - / - H_2O Self heated –

4 | 2050
512

Should try without

1	815	937
	1015	1120
	1245	1357
	1000	1158
	1129	1292
	1340	1470
	1390	1470
	1340	1430
	500	500
	555	585

} somewhere wrong
Date 7-7-94

2879 }
2880 } No 46 Dr. G. 5 grms

80 Te
10 Bi
20 Sb - 5% HgO

Non pyrophoric -

1.	1660	1545
	2145	1955
	2072	1787
	2145	1900
	1833	1900
	1800	1550
	2212	1900
	2055	1745
	2210	1780
	2090	1840
	1880	1650
	2196	1770
	1742	1733
	1835	1765
	2130	1900
	1815	1500
	1575	1468
	2055	1940
	2517	2460
	1675	1890

Something in Tin -

S

629 mat per gram Sb

2881 } No 40 Drg 5 grms
2882 } Non pyrophoric -

80 % 20 Tin -

5% HgO -

5% HgO -

1:115 [illegible] grams Sb

See Grathes book

4 | 2517 / 629

1537	1575
1437	1370
1675	1650
1442	1454
1625	1600
1660	1675
1790	1790
1780	1782
1950	1900
1880	1857
1832	1825
1633	1642
1692	1667
1800	1787

Runs more
even both pockets
alike than
any Iron
from 2500 to
This point -

Something in it

2883 1045 Dr 9 5 grms
2884

Nonpyrophoric

5% HgO - S

20 Stibnite

20 Antimony
80 Iron —

487 Matt grms Fe
Indirect

Something in it

4 | 1950
4 | 487

165	1682	1700
	1360	1347
	1540	1537
	1275	1263
	1400	1375
	1523	1510
	1670	1685
	1695	1740
	1735	1730
	1755	1770
	1555	1580
	1454	1483
	1517	1527
	1750	1810

Both pkts
Prem Eosin
Urs also

2885 38 Dr. 9. 5 grms
2886

Not self healed

No HgO — Non pyro

20 Bi
80 Sb

1	1885	1800	
	1800	1720	
	1700	1660	
	1450	1333	
	1354	1283	
	1670	1640	
	1645	1560	
	1625	1542	
	490	635	Reversed 15 hours at 400 ma.
	685	697	
	645	640	

2887 } No 45 Dr. 9. 5 gms
2888 }

8072
20 Sb
5% Hgo - Sedheadale

1	837	857
	800	800
	500	530
	533	546
	550	572
	800	833
	855	855
	845	872
	950	1000
	1000	1012
	855	870
	642	653
	658	700
	935	970

2889 Coch 2 tubes with Fe mix
& Ni flake
7 Parts Fe mix reg
3 " Ni flake ½ reg thickness
3½ lb weight auto machine
Dry mix

wt 11.495

2890 wt 11.360

1	1146	1130
	1125	1100
	1275	1225
	833	750
	1000	946
	1300	1260
	1300	1300
	1250	1200
	960	925
	1295	1150
	1000	950
	500	417

2891

784 Ra

5 grams

2892

1	1062	1042
	1125	1092
	1300	1160
	833	750
	950	883
	1335	1275
	1465	1290
	1300	1200
	950	850
	1170	1000
	1025	945
	512	383

2893
2894 Ra 783 5 grms

1	1250	1260
	1350	1347
	1345	1350
	1000	1042
	1192	1167
	1465	1460
	1515	1545
	1400	1450
	1300	1270
	1465	1420
	1325	1345
	950	492

2895
2896 Ra 786 5 grms

80% Fe
15% Cu
5% MgO

1	1192	1230
	1312	1352
	1300	1370
	833	864
	1067	1092
	1400	1467
	1510	1572
	1360	1425
	1210	1200
	1350	1352
	1200	1220
	550	500

2897
2898 Ra 785 5 gm

80 % Fe
15 % Cu
5 % HgO —

2899
2900 Dr Grolle No 40 5 grm

Dup 2899-2

80 % Zr 20 Tin 5% 66 gO —
Non pyrophoric
for Economy tests for Holland —
4 tubes

1	1350	1265
	1170	1075
	1270	1200
	1142	1133
	1167	1175
	1340	1340
	1405	1400
	1322	1300
	1472	1420
	1560	1600
	1445	1460
	1104	1187

2901
2902 R.A. 787 5 grams

1	1090	1100
	1200	1240
	1347	1355
	1292	1300
	1333	1355
	1500	1460
	1405	1440
	1480	1500
	1500	1470
	1650	1650
	1650	1655
	1000	1375
	1175	1177
	1725	1630
	1580	1577
	1512	1572

Reg'd 15 Hz at 400 ma

2903
2904 R.a. 5 grams

Soy beans then washed reduced & sifted mixed with 14% H2O

1	800	800
	650	652
	630	630
	654	654
	650	650
	955	940
	1000	980
	1025	990
	1200	1215
	1170	1165
	1175	1190

2905 R.A # 792 5 grams

2906 Selfheated

1	1140	1170
	1770	1732
	1800	1800
	1525	1583
	1500	1560
	1850	1830
	1760	1727
	1765	1770
	2095	2082
	1895	1885
	1700	1740
	1867	1821

2 pkts run close
1 ogalles

10 cut to 6 balls

2907 5 grams

2908 Sodium ferrous sulphate
exp scorted washed reduced
sediment & mixed regular

$5 \overline{)2085}$
417 milliff per gram

30		
40		1
25		
10		
17		1
30		
40		1
20		
30		
40		
48		

3 grams

2909 Ferrous sulphite prepd by
Slacked lime + lime exhausted
by water till nearly out
E.

1	1150	1125-
	847	810
	705-	690
	600	554
	517	450
	575-	640
	720	690
	750	700
	940	890
	800	510
	675-	465-

2910 5 grams

2911 51-9 not selfhinted
mixed 5% H_2O
Fe 80 Al 10 Pb 20

1	1200	1195
	1275	1245
	1100	1100
	717	658
	608	446
	1412	1275
	1132	1000
	1250	1150
	1370	1155
	740	775
	597	775

1	1142	1185
	1200	1260
	1400	1362
	1000	812
	596	742
	1325	1432
	1440	1500
	1545	1500
	1570	1465
	1382	1120
	1050	1200

2912 5g

49 selfheated

2913 mixed with 5% H_2O

$Fe_{80}Bi_{10}W_{10}O_{20}$

2914 5g

49 not selfheated

2915 mixed 5% H_2O

$Fe_{80}Bi_{10}W_{10}O_{20}$

1	990	1060
	740	762
	650	675
	467	500
	450	417
	615	650
	700	657
	700	730
	640	775
	370	445
	315	352

2916
2917 #51 g selfhicinted mixed. 5% Hgo

59

F=80 Bi 10 Pb. 20

1	300	285
	380	390
	355	400
	200	208
	212	167
	200	145
	185	135
	200	250
	40	25
	20	17
	12	15

Reversed 15H
400 mg

Bad

1	435	437
	500	530
	490	495
	417	417
	475	467
	347	335
	270	400
	285	260
	85	80
	25	15
	55	12

Rev 15H
400 am.

2918
2919 #43 g not selfheated 5g
mixed 5% Hg O
Fe 80% Vanad. 20

2920
2921 #43 g selfheated 5g
mixed 5% Hg O
Fe 80% Vanad 20%

1	962	680	
	150	180	
	137	220	
	167	283	
	208	333	
	357	497	
	475	626	
	600	715	Reversed
	655	400	15 H, 400
	600	650	
	570	647	
1	1600	2080	??
	300	300	
	255	460	
	333	527	
	387	571	
	745	930	
	900	1080	
	1030	1245	Rev 15 Hz
	1075	50	
	1000	1285	
	977	1300	

2922 # 48 g selfheated 5g
2923 Mixed 5% HgO
Fe 80% Molybd. 20%

2924 # 48 g not selfheated 5g
2925 Mixed 5% HgO
Fe 80% Molybd 20%

1	650	580	
	80	70	
	62	65	
	42	42	
	50	58	
	60	62	
	62	70	
	70	35	
	35	25	
	35	25	
1	240	250	
	20	25	
	25	25	
	17	34	
	35	40	
	25	65	
	40	64	Recd 15 hrs — 400
	15	35	
	20	40	

Manganese
Very bad ute

2926
2927 #44 g not sufficient 5g
mixed 5% H2O. Fe 80% Mang. 20%

2928
2929 #44 g Sufficient 5g
mixed 5% H2O. Fe 80% Mang. 20%

1	1350	1455
2	1075	1125
3	1242	1275
4	1083	1133
5	Se	1217
6	1550	1420
7	1530	1550
8	1550	1575
	1700	1725
	1617	1620
	1617	1637
	1250	1250
	1262	1215
	1680	1715
	1630	1615
	1625	1635
1	1415	1430
	1320	1315
	1670	1755
	1405	1425
	1487	1483
	Se	Se
	Se	1655
	1320	1590
	1750	1830
	1500	1580
	1505	1552
	1168	1262
	1193	1293
	1515	1600
	1500	1570
	1520	1522

Read 15 Hour
400 ma

to Holler

2930
2931 # 41 g not sulphurated 5g
mixed 5% HgO
Fe 80% Cu 20%

2932 # 41 g Sulphurated 5g
2933 mixed 5% HgO.
80 Fe 20 Copper

2g

1	1300	1250
	1435	1585
	1455	1140
	1404	1458
	1755	1800
	1750	1755
	1755	1730
	1462	1725
	1512	1512
	1885	1970
	1690	1620
	1300	1200

1	1487	1525
	2210	1845
	1760	1645
	2050	1683
	1975	1633
	SC	1720
	1710	1630
	~~1475~~	~~1700~~
	12250	1875
	1812	1812
	2285	2425
	2460	2550
	1460	2685

727 MaH per gram 72 Highest known

Think its the Tin Had a good

S Note

2934 478 Not selfheated
2935 Mixed 5% HgO 5g.

80 Fe 20 Wolfram — Non pyro

2936 50 G Not selfheated
2937 Mixed 5% HgO. 5g.

80 Fe 10 Bi 20 Sn

See Grade book Homemade

35 Fe 26 Sb (767)

2 4 3 2 2 1 0 1 2 3 1

Off the Tin

110 (727) 800 770 1 2 3 4 5 6

1	1635	1655
	1600	1640
	1580	1650
	1567	1575
	1667	1585
	1635	1637
	1540	1420
	1290	1280
	1175	1225
	1025	600
	1260	925
	1257	1055
	1165	985
1	1890	1900
	1885	1870
	2050	2075
	1958	2067
	1992	2050
	1795	1775
	1890	1900
	2447	2387
	2556	2650
	1643	1750
	2467	2390
	SE	2200
	1875	2300

Not Tin [illegible]

2938 47 g Self heated
2939 Mixed 5% H2O 5 grams

80 Pb 20 Wolfram
Self heated

2940 50 g. Self heated
2941 Mixed 5% H2O 5 grams

80 Pb 10 Bi 20 Sn

Chemistry Lab test

700 Watts per gram

about same
Non pyro as
self heated

1	1065	1077	
	465	482	
	555	587	
	525	500	
	560	467	
	920	920	
	830	777	
	847	710	
1	975	975	
	900	670	
	620	610	
	550	567	
	529	529	
	925	947	
	800	797	
	845	819	

2942 53B. Selfheated
2943 Mixed 5% HgO 5grams
FeSO Ba 10 Pb. 20

2944 53B, Not selfheated
2945 Mixed 5% HgO 5grams
FeSO Ba 10 Pb. 20

	220	235
	110	95
	120	115
	50	58
	62	50
	65	50
	22	20
	25	10

Chromium Rod
w 7/32

2946 56 g Selfhearted
2947 Mixed 5% H_2O 5 grams
Fe 80% Chrom 20%

1	835	1235
	97	60
	45	55
	58	42
	55	50
	30	45
	40	40
	25	42

2948 56 g Not Selfhearted
2949 Mixed 5% H_2O 5 grams
Fe 80% Chrom 20%

1	1100	1140
	385	400
	350	340
	280	390
	385	375
	200	250
	1275	1260
	477	470
	400	400
	320	285
	375	420
	325	365

Vanadium Steel

5g

2950
2951 #54 g Selfhearted
mixed 5% Hgo
Fe 80 Bi 10 Vanad. 20

5g

2952 #54 not selfhearted
2953
mixed 5% Hgo
Fe 80 Bi 10 Vanad. 20

1	450	410
	100	100
	40	50
	25	25
	30	5
	5	10
1	1025	925
	145	60
	30	20
	10	15
	5	10
	—	10

Manganese again
Bad

5g

2954 #55 g selfheated
2955 mixed 5% H_2O
Fe 80 Bi 10 Manganese 20

5g

2956 # 55 g not selfheated
2957 mixed 5% H_2O
Fe 80 Bi 10 Manganese 20

1	50	1337
	225	1660
	300	1595
	792	1567
	958	1492
	1485	1522
	50	1515
	1655	1500
	1617	1780
	1600	1617
	1612	1530
	1250	1181
	1300	1192
	1590	1500
	1500	1425
	1512	1460
		1492

1492 average

1	1630	1500
	1580	1500
	1470	1400
	1250	1125
	1267	1105
	1465	1427
	1435	1445
	1444	1465
	1727	1770
	1540	1510
	1480	1627
	1200	1000
	1050	1050
	1535	1592
	1400	1425
	1475	1461

Rec'd 15 H at 400

1406 average

2958 2 Pockets reg. iron mix S.J.

2959 Pockets Silver plated not.

2960 2 Pockets reg iron mix S.J.

2961 Pockets Copper plated

1	1555	1500
	1490	1485
	1600	1555
	1354	1300
	1379	1300
	1500	1452
	1455	1400
	1437	1390
		Revised
	1695	1655
	1477	1470
	1470	1437
	1125	1106
	1162	1162
	1500	1500
	1400	1400
	1460	1458
		1437 average
1	1485	1412
	1660	1560
	1490	1400
	1333	1292
	1442	1408
	1530	1535
	1512	1532
	1542	1555
		Revised 15th
	1867	1800
	1662	1604
	1605	1577
	1125	1206
	1250	1250
	1610	1632
	1485	1530
	1540	1500
		1487 average

2962 2 Pockets reg iron mix 5g

2963 Pocket Gold plated

2964 2 Pockets reg iron mix 5g

2965 Cobalt Plated pocket

1	1475	1440
	1520	1435
	1540	1440
	1487	1350
	1294	1206
	1600	1577
	1540	1455
1487	1440	1462

1421 average

2966 2 Pockets reg iron mix 5g
2967 Tin plated pockets
Cobert Ray

1	1425	1435
	1350	1385
	1245	1390
	1381	1231
	1187	1100
	1545	1500
	1480	1430
	1400	1390
	1525	1680

1397 average

2968 2 Pockets reg iron mix 5g
2969 Cadium plated pockets
Slightly better than Ray

1	1800	1845	Again Tin shows up good.
	1590	1592	
	1640	1635	
	1375	1256	
	1287	1175	
	1576	1565	
	1500	1480	
	1465	1430	
	1690	1680	1517 average
1	1440	1440	
	1385	1340	
	1460	1465	
	950	843	
	856	775	
	1460	1467	Plots run close
	1465	1465	
	1465	1450	1231 average

2970 2 Pockets reg Fe mix 5g

2971 antimony plated pockets

2972 2 Pockets reg Fe Mix 5g

2973 Bismuth plated pockets

~~Slightly better than reg~~

2974 2 Pockets reg Fe mix 5g
2975 plated pockets

~~Sugar~~

2976 —

24 parts of 2883 Iron mix
10 Cobalt flake you need not
adjust but let it go just as if it
was green — pack in Nickel
tube pkg machine — 3½ wt
4 Ruip —

Only one tube —

	652	655
	650	647
	655	645
	575	587
	587	587
	560	550
	567	534
	1000	985
1	1105	1055
	810	772
	925	910
	650	656
	637	668
	1120	1117
	1090	1070
	1230	1193

6

2977 #65 g Selfheated
2978

Reduced + Selfheated
mixed 5% HgO

80 Fe
15 Cu
2 ag

2979 #65 g not selfheated
2980 Reduced & not Selfheated
mixed 5% HgO

80 Fe
15 Cu
2 ag

1	1370	1387
	1400	1360
	1475	1480
	1481	1481
	1050	987
	1955	1815
	1800	1885
	1920	1935

552 Milligram

Tin organic

S

552

3.7%	1935	552
	1935	
	1875	
	1750	
	1	

1	1107	1100
	825	1090
	1027	1222
	700	1281
	706	1000
	1250	1622
	1367	1775
	1452	1875

2981		#619 Selfhydrated
2982	70 Fe	Reduced + selfhydrated
	30 Sn	Mixed 5% 1g0

2983		#619 not selfhydrated
2984	70 Fe	Reduced + not selfhydrated
	30 Sn	Mixed 5% 1g0

1	1140	1125	
	740	740	
	680	675	
	768	787	
	812	900	
	1320	1355	queering up
	1410	1455	
	1535	1600	
	900	990	
	925	875	
	937	880	
	580	412	
	575	387	
	1135	930	
	1035	840	
	1112	812	

2985		# 60 g calcinated
2986	75 Fe	Reduced + calcinated
	25 Sn	Mixed 5% HgO

2987		# 60 g not calcinated
2988	75 Fe	Reduced + not calcinated
	25 Sn	Mixed 5% HgO

1	1240	1210
	1310	1297
	1280	1270
	1037	1141
	1062	1112
	1580	1587
	1315	1300
	1395	1350
	380	390
	870	877
	1010	1017
	525	543
	512	525
	1030	1015
	1040	1045
	1135	1115

Going up

2989		#57 S Sulphiated
2990	95 Fe	Reduced + Sulphiated
	5 Sn	Mixed 5% H_2O

2991		#57 not sulphiated
2992	95 Fe	Reduced + not sulphiated
	5 Sn	mixed 5% H_2O

485	480
607	620
1130	1255
493	850
750	818
1325	1412
1510	1595
1715	1710
1190	1235
1517	1770
1832	1990
1437	1475
1362	1500
2057	2072
1940	1950
1860	1865

[illegible] up [illegible]

[illegible]

5 2072 [illegible]

2993 Ferrous Sodium Sulphite
2994 not sulphated mixed 5% H_2O

2995 Ferrous Sodium Sulphite
2996 Sulphated mixed 5% H_2O

2995 $\frac{1}{2}$ Theo is 2995-6 - put upwell
2996 $\frac{1}{2}$ 4 ml tubes 2 put on hot
test - ~~[illegible]~~

L	927	847	
	965	937	
	945	897	
	1112	637	
	700	575	
	1165	1052	
	1220	1085	gone up
+	1340	1140	
	1145	1187	
	850	960	
	950	1095	
	525	625	
	500	600	
	967	1085	gone up
	1080	1200	
	1095	1240	

2997 90 Fe #58 ~~g~~ not selfheated
2998 10 Sn Reduced mixed 5% H_2O

2999 85 Fe #59 ~~g~~ not selfheated
3000 15 Sn Reduced + mixed 5% H_2O

1	1315	1385
	1410	1435
	1645	1700
	1587	1706
	1150	1206
	1550	1700
	1645	1740
	1960	2000

70 mp big

625 Neathquarth

320 | 2000 | 1920 | 80 | 64 | 16

1	1757	1842
	2225	2242
	1925	2080
	1431	1656
	1193	1462
	1595	2005
	2000	2050
	1860	2085

Neathquarth

641

320 | 2085 | 1920 | 165 | 128 | 37

3001 #62 g not sulphiated

3002 65 Fe Reduced + not sulphiated
35 Sn Mixed 5 % 14 g.o

3003 #62 g Sulphiated

3004 65 Fe Reduced + Sulphiated
35 Sn Mixed 5 % 14 g.o

1	1615	1660
	1505	1375
	1380	1415
	943	1125
	950	1125
	1520	1635
	1505	1625
	1650	1674

gaseous

45 | 1675 | 1372 Mallinckrodt
1325
3375
3150
1700

1	1916	1600
	1595	1560
	1682	1490
	1250	1112
	1250	1125
	1640	1695
	1640	1775
	1695	1815

cap

425 | 1595 | 445 Mallinckrodt
1700
1995
1700
2700

3005 90 Fe #58 S selfheated
3006 10 Sn Reduced + selfheated mixed 5% H_2O

3007 85 Fe #59 S selfheated
3008 15 Sn mixed 5% H_2O

620	635
583	605
590	635
550	600
500	537
640	725
900	980
1020	1115
2030	2090
885	885
887	887
550	562
612	618
980	965
1000	1025
1000	1035

3009 80 Fe #66 g reffreated
3010 15 Cu mixed 5% HgO
5 Cr

3011 80 Fe #66 g not reffreated
3012 15 Cu mixed 5% HgO
5 Chrom

965	962
785	950
1275	1277
725	925
912	906
1475	1710
1525	1765
1580	1785
1540	1577
1650	1645
1585	1600
1206	1250
1175	1225
1580	1600
1595	1565
1605	1570

3013 80 Fe #63 g not selfheated
15 cu Reduced + not selfheated
3014 5 gm 5% H_2O

3015 80 Fe #63 g selfheated
15 cu Reduced + selfheated
3016 5 gm Mixed 5% H_2O

825	825
737	715
840	800
600	575
600	562
1075	990
1160	1025
1265	1100
810	752
305	290
340	335
181	225
275	325
555	477
642	570
630	560

9" up

3017 80 Fe #68 g not sulphurized
3018 15 Cu mixed 5% Ag2O
5 Sn

3019 80 Fe #64 g Nin pyrophoric
3020 15 Cu with 5% Ag2O
5 Mo

Improved after resuscitation from 1500 to 1750
1575 1850

1	880	800
	215	200
	250	225
	187	162
	212	200
	410	330
	455	365
	445	370
	625	595
	1460	1470
	1475	1520
	806	925
	875	1025
	1475	1545
	1490	1585
	1500	1595

improved

n 1595 / 532 weight gain

3021 80 Fe #64 g Non pyrophoric
3022 15 Cu no Hgo
5 mo

3023 60 Fe #69 g Non pyrophoric
3024 40 Cd with 5% Hgo

1	842	815
	1280	1300
	1350	1430
	725	875
	856	987
	1555	1650
	1420	1535
	1350	1505
	1035	1055
	665	665
	730	720
	612	587
	662	618
	800	785
	855	840
	865	865

7 / 1670
550 neat per power

3025 60 Fe #69 g Non pyrophoric
3026 40 Cd No Hgo

3027 80 Fe #68 g sulphurated 5% Hgo
3028 15 Cu
5 Sn

Improved after reversal from 865 to 1400
865 to 1450

1	1282	1345
	955	990
	980	1035
	568	650
	662	750
	1005	1055
	1005	1070
	945	1000
	1370	1365
	815	770
	837	775
	500	475
	570	562
	880	840
	865	860
	825	822

3029 Ferric amon Chloride 5% Hgo
3030 selfheated

3031 Ferric amon Chloride with 5% Hgo
3032 not selfheated

Improved after reversal from 825 to 1160
822 1137

537	500
525	505
520	500
437	400
464	456
625	585
625	600
710	675
355	380
350	370
430	475
300	300
350	337
640	650
620	615
722	700

3033 cupric Ferric sulphate with 5% H_2O
3034 selfheated

3035 cupric Ferric sulphate with 5% H_2O
3036 not selfheated

1	1340	1305
	735	745
	755	755
	475	450
	515	500
	770	760
	800	840
	712	822
	785	820
	510	550
	530	560
	362	437
	437	531
	730	840
	827	925
	822	837

going up

3037 Ferric Potass Chloride with 5% H_2O
3038 not affiliated

Improved after reversal from 812 to 1087
722 1085

3039 Ferric Potass Chloride with 5% H_2O
3040 affiliated

Improved after reversal from 822 to 1025
837 1155

500	530
375	420
360	440
225	275
18	356
515	625
575	640
405	605
970	900
700	670
630	622
312	275
393	362
765	700
940	700
630	635

3041 Ferric Magnesium Chloride
3042 with 5% H_2O selfheated

3043 Ferric Magnesium Chloride
3044 with 5% H_2O not selfheated

1	625	650
	720	765
	800	875
	775	825
	687	700
	612	537
	640	562
	440	395
	380	385
	295	280
	245	235
	225	231
	175	175
	215	218
	260	265
	285	275

3045 5 grms
3046 83 Dr G - 90 F_2
10 Cerium -
Selfheated 5% HgO

3047 5 grms
3048 Dr G - 70 80 F_2
20 BaO
Selfheated 5% HgO

1	315	300
	375	360
	535	530
	508	600
	356	343
	396	362
	800	637
	480	382
	800	885
	315	410
	325	425
	208	250
	137	200
	162	225
	360	447
	382	465

3049
3050

No 83 G 90.72
10 Cerium
Nonpyrophoric 5% HgO –

3051
3052

No 7 Dry 80 Fe 20 BaO
Nonpyrophoric 5% HgO –

1	315	330
	340	425
	430	562
	550	362
	512	268
	375	312
	465	827
	275	545
	95	95
	97	95
	100	95
	100	118
	87	93
	125	137
	160	165
	180	185

5 g

3053
3054 No 83 Dr 9 –
90 Fe
10 Cerium
Nonpyro
No HgO –

5 g

3055 64 Dr 9 80 Fe
3056 15 Cu
Sulphate 5 Molybdenum
5% HgO –

1	1075	995
	1240	1220
	1355	1275
	1125	1100
	962	1075
	1037	1150
	1452	1327
	1417	1295
	375	375
	65	75
	60	57
	61	62
	67	56
	100	81
	100	95
	112	112

Unusual

3) 1452
484 watt for gram

5 gram

3057 69 Dry 60 Fe
3058 40 Cd
Selfheated 5% HgO —

Very high Efficy. chg V. 165 -
61% watt efficy 80% ampere
given 1200° to V. Watt to very

5 g

3059 NO 70 Dry 80 Fe
3060 20 Bad
Nonpyro no HgO —

1	1190	1285
	1135	1290
	1335	1390
	982	887
	1100	1037
	868	731
	1400	1425
	1375	1400
	1245	1250
	620	625
	418	456
	541	562
	625	637
	967	970
	1152	1150
	1120	1115

3061 5 gram cakes
3062

Take some reg. Iron mix use water put 3 or 4 drops water in couple of of mix & work till gets damp enough to stick together when pressed in fingers
Then make Cakes of it 1/8 thick about with 900 atms & lay on hot plates for 1/2 hr.
Then crush like green nickel & sieve thro 20

Works OK - 1375 / 1400
but often many runs gets about 1250.

3063
3064 No 88 Dr G- 907g
non pyro 5% H2O 1086

Theo pocket swelled terribly & cracked, strings

Wasnt made right & quer acid nit

1505	1400
950	885
662	562
706	612
712	625
960	895
1030	727
992	900
1155	1345
600	630
375	481
468	575
537	650
582	910
1015	1062
1027	1052

up

3065 88 Dry 90 Fe
3066 10 Sb
Seefhontid 5% H_2O —

3067 No 88 Dry - 90 Fe
3068 10 Sb
Non pyro No H_2O —

1	665	830
	255	360
	125	168
	165	206
	162	218
	350	425
	422	487
	425	500
	1120	1010
	320	265
	125	81
	162	106
	175	112
	325	245
	400	320
	410	340

Uranium doubtfully seems good for iron

3069 N071 Dry
3070 8072
20 Uranium
Non pyro no H_2O —

3071 73 Dry 8072
3072 20 SrO
Non pyro no H_2O

1	740	735
	425	435
	234	225
	268	262
	231	231
	252	255
	295	295
	255	255
	885	960
	455	460
	143	143
	200	187
	200	187
	390	360
	457	425
	492	450

3073 No 71 Dr G
3074 80 Fe
20 urea
Selfheated 5% Hgo

3075 No 71 Dr G
3076 80 Fe
20 urea
non Pyrophoric 5% Hgo

550	546
280	295
143	143
131	137
112	112
160	165
190	180
200	190
1060	1015
310	295
93	81
112	118
125	118
260	265
340	360
390	395

3077 No 73 Di G

3078 80 Fe
20 Sn
selfheated 5% HgO

3079 No 73 Di G.

3080 80 Fe
20 Sn
Non Pyrophoric 5% HgO

NG Nolting

Nolting

3081 — 5 grms
Precip. Tungstate Iron
Edsommindee

3082 — Precipt'd Tungstate 7/2
run thro H. 1/2 hour — Bright
yellow — No Hg —
Took 10,326. grms

600	620
880	960
475	400
400	250
387	250
787	600
992	720
1670	775

gr. up

360	350
382	365
343	343
375	362
412	375
655	600
935	795

3083 57
3084 No 2993 –
Nonpyro ferrous sodium sulfate
250 atmosphere pressure Corrington –

Heavy pressure Kills & only pur 787 to V
after reversal - improved to 1420
1232

3085 Dry 72 80 F_2
3086 Non pyrophoric 20 CaO
Na_2SiO_3

Notice several places - after reversal great improvement
Why?

1	240	240
	330	340
	343	356
	387	425
	431	467
	432	815
	1095	1337 — 5 gm of
	250	342
	382	475
	475	475
	315	250
	212	187
	220	220
	180	195

Cerium Mg

3087 D+G 82 — 80% Ce
3088 20 CeO
Non pyrophoric 5% H_2O

3089 80% Ce
3090 D+G 82 — 20 Cerium
Non pyrophoric 5% H_2O

342	350
500	540
431	393
456	400
467	450
967	990
1312	1317
525	535
697	690
468	450
283	287
212	231
280	285
195	195

pump up

Remarkable that its so good with CaO, BaO + SrO

Cerium bad

3091 72 D.G. 80 Fe
3092 20 CaO
Selfheated 5%, HgO

3093 D.G. 82 80 Fe
3094 20 Cerium
Selfheated — 5%, HgO

1	255	325
	337	420
	406	437
	375	337
	218	225
	225	280
	187	180
	942	917
	442	437
	337	306
	406	375
	437	400
	632	595
	680	640

Some mistake in this
no wrong or unprofitable
wrong in three each charge
— Ab 72 —

3095 82 Dr. G —
3096 Non pyro —
No H_2O —

80 Fe
20 CaO

~~[illegible]~~

3097 74. Dr G 80 Fe
3098 15 Cu
5 W.

Non Pyrophoric.
no H_2O

957	817
537	472
312	243
375	300
400	306
687	585
410	592
650	657
997	1007
850	718
875	750
993	862
1330	1285
1335	1267

91 - 1 up

3099 74 Dr G.
3100 non Pyro 5% Hgo 80 Fe
15 Cu
5 W

3101 74 Dr G.
3102 silfhiated 5% Hgo 80 Fe
15 Cu
5 W

1	1157	1115
	500	477
	250	255
	300	250
	325	262
	500	465
	585	530
	1140	1140
	490	765
	487	487
	500	500
	531	531
	730	735
	820	820
	1145	1157
	435	450
	250	250
	287	287
	293	293
	485	475
	550	517

Plates run together even

bills

3103 79 Di-G. 80 Fe
3104 non Pyro 20 Cu

3105 79 Di-G 80 Fe
3106 replicated 5% Hgo 20 Cu

3107 79 Di-G. 80 Fe
3108 non Pyro no Hgo 20 Cu

1	7127	1147	7	517	560			
2	550	545	8	510	495			
3	375	550						
4	362	343						
5	340	350	7					
6	530	514	8					
1	1085	980	7	1140	1250			
2	787	900	8	1125	1200			
3	415	600						
4	443	650						
5	500	712						
6	930	1092						
1	1025	1162	7	626	557			
2	500	910	8	440	440			
3	562	687						
4	500	606						
5	375	500						
6	635	630						
1	1095	1025	7	532	530			
2	590	555	8	495	492			
3	456	443						
4	475	481						
5	437	437						
6	570	570						
1	1240	1245	7	1000	900			
2	1095	1117	8	855	780			
3	615	737						
4	715	787						
5	700	650						
6	1080	852						

3109
3110 Ferrous Potassium Sulphate, 5 g
Non pyro - 14% H_2O - mg

3111
3112 Ferric Ammonium Sulphate, 5 gr
14% H_2O - Contains of mg
non or self heat -

3113
3114 Ferric Potassium Sulphate
Self heated
14% H_2O - mg

3115
3116 Ferric Potassium Sulphate, mg
Self heated 14% H_2O -

3117
3118 Ferric Potassium Sulphate
Non pyrophoric mg
14% H_2O -

3119 — One iron from old No 2 which has run 1167 times, hot, this iron put up with 2 nickel flat test pockets —

3120 Dupe of 3119 —

When neutralized Fe goes bad

1	1345	1400				
	1195	1227				
	725	700				
	625	675				

No Current

1	127	132				
	210	210				
	100	106				
	131	143				

3121
3122 Ferric Potassium Sulphate
Non pyro No mercury
Contains some Sulphide —

3123 DrG No 80 — 80 Fe
3124 20 Manganese
5% Hg
Non pyrophoric

3125 DrG No 8 Selfheated
3126 80 Fe
20 Manganese
5% HgO —

3127 DrG — 76 — non pyrophoric
3128 80 Fe
15 Cu
5 Nickel —
5% HgO
Nonpyrophoric —

	140	135
	260	260
	193	197
	237	250
	20	22
	15	0
	0	0
1	457	462
2	600	600
3	400	400
	1040	976
	595	565
	568	312
1	1127	1100
2	580	690
3	343	425

3129
3130 No 76 G - Non pyro - 80 Fe
15 Cu
5 nickel.
No mercury

3131 Non pyrophoric 80 Fe
3132 20 manganese
No Mercury

3133 Dr G 76 Selfheated 80 Fe
3134 15 Cu
5 Ni
5% HgO —

3135 Ferrous Pot Sulphate. Non pyro
3136 No Hg — Contain some sulfide —

3137 Ferrous Potass Sulphate.
3138 Non pyro - No Hg -
This seems a dup of 3135
perhaps a mistake —
Either 3135 or this pGq got Hgo

Nothing

Nothing

3139
3140 Blue Molybdenum Oxide — 5 gr — Dry

3141
3142 Blue oxide of Tungsten Reduction Tungsten & by H. Dry
Weight used — 5 grms
It is very finely divided soils fingers worse than Fe_2O_3 or Lamp Black.

3143-44 - 93.4% amp effcy
1470 long chg 1400
Short chg — to highest effcy
yet — it should low a look
6 or 8 runs 3140 & 1150 to bring
it up —

3143-4		3145-6
520	490	492
750	675	660
876	937	900
965	1021	1081
1125	1150	1594
1475	1580	1575
1575	1610	1630
1620	1675	

Note B

Also note that I only selected the one of the highest Corrugate production — but made 100 alum runs the point — highest for was produced

3143
3144 - Use 2993 — 5 gm. Made
Ferrous Sodium Sulphate slightly brown grade

Smooth press 100 —
Corrugate 25 alums

3145 Use 2993 5 gm. Made
3146
Smooth press 100
Corrugate 50 alums

3147 Use 2993
3148
Smooth press 100 Not enough
Corrugate 75 alums

3149 Use 2993
3150 Smooth press 100
Corrugate 100

3151 Use 2993
3152 Smooth press 100
Corrugate 125 alums

3153

1067	
887	
681	
600	
473	
940	
1135	

3155 — 6

477	580
656	577
743	620
856	662
1220	1119
1365	1275

3157 — 8

1525	1472
1425	1160
1450	1272
1431	1250
1450	1168
1550	1540
1595	1500

3159 — 60

490	497
2275	2290
875	942
625	604
762	727
1290	1273
1400	1413

3153 Ra 849
3154 Ferrous sodium Sulfate Nonpyro
14% HgO —
only enough for one pocket

3155 Dr G 76 — 80 Fe 15 Cu 5 Ni
3156 Selfheater 5% HgO -

3157 Dr G 100 —
3158 Selfheater 95% Fe 5% Tungsten
5% HgO —

3159 Dr G 106 95 Fe 5 Tungsten
3160 Nonpyro NoHg

3161 — 2	
740	740
707	670
750	720
750	667
550	570
990	890
1070	915
3163	— 4
760	760
—	707
500	612
508	718
500	750
1050	1200
1310	1330
3165	— 6
1035	990
1130	1065
997	1000
997	997
1037	975
1500	1440
1470	1353
3167	— 8
210	195
407	395
487	465
612	570
500	475
390	375
400	400
3169	— 70
520	569
562	592
460	462
500	497
456	450
580	710
600	680

3161 DrG 104 85/Fz 15/Tungstan
3162 Nonpyro 5/HgO

3163 DrG 106 95 Fz 5 Tungstan.
3164 Self-H - 5/HgO

3165 DrG 95 70 Fz 30 Tungstan
3166 Self-H. 5/HgO

3167 DrG 104 85 Fz 15 Tungstan
3168 Self-H - 5/HgO

3169 DrG 104 85 Fz 15 Tungstan
3170 Nonpyro NoHgO

3171 — 2	
582	552
910	840
406	387
370	362
370	370
890	925
1065	1060

3173 — 4	
700	702
712	705
500	488
493	493
500	500
980	1000
1090	1135

3175 — 6	
1100	967
870	750
625	472
593	462
625	462
980	900
1140	940

3177 — 8	
1182	1200
1110	1115
987	1100
1050	1175
1000	1075
1515	1520
1495	1490

3179 — 80	
1650	1635
1580	1645
1250	1625
1450	1515
1212	1327
1495	1500
1540	1525
1570	1500

3181 — 2	
1540	1540
1550	1550
1106	837
1261	1000
1000	750
1560	1385
1450	1485
1515	1510

3171 Drl 95 70 72 30 Tungsten
3172 Non pyro 5% H_2O

3173 Drl 95 70 72 30 Tungsten
3174 Non pyro No H_2O

3175 Ra 845 Ferrous Sulphate Sulphate
3176 Non pyro 14% H_2O

3177 Dr G 106 95.72 5 Tungsten
3178 Non pyro 5% H_2O

3179 Dup of 2940 — Drl — 80 72 20 Su 10 Bi
3180 5% H_2O
Dont dup — 2940 went to 2650,

3181 Dup of 2936 — ditto —
3182
This didnt Dup well

3183–4	
295	240
305	267
300	312
462	337
275	325
670	625
585	540
625	570

3185–6	
345	335
282	282
275	325
362	500
337	375
700	745
665	690
650	700

3187–8	
575	550
700	627
575	575
500	581
400	275
785	600
670	530
665	515

3189–90	
900	905
1065	1090
750	768
712	700
718	700
1240	1245
1270	1265
1295	1280

3191–2	
945	947
950	1000
862	962
606	662
525	525
1000	1005
990	1080
1110	1145

3193–4	
815	845
940	940
600	575
625	587
675	615
1220	1235
1225	1227
1250	1250

3183 Drl 103 Non pyro 5 9 80 Fe 20 Tungsten
3184 5% HgO

3185 Drl 103 Non pyro 80 Fe 20 Tungsten
3186 no mercury

3187 Drl 103 Self Heated 80 Fe 20 Tungsten
3188 5% HgO -

3189 Drl 102 Nonpyrophoric 75 Fe 25 Tungsten
3190 No Hg

3191 Drl 102 Self heated 75 Fe 25 Tungsten
3192 5% HgO -

3193 Drl 102 Non pyro 75 Fe 25 Tungsten
3194 5% HgO -

3195–6	
490	490
780	846
700	787
893	1037
990	1187
1485	1590
3197–8	
300	290
300	290
325	320
468	462
612	637
1045	1100
3199–3200	
1000	990
1060	1090
856	900
937	1000
987	1075
1395	1385
3201–2	
597	535
430	312
150	75
162	62
250	75
390	110
3203–4	
597	662
600	660
312	375
412	475
493	600
815	900

3195 Dr 9 97 80 Fe 20 Tungsten
3196 5% HgO Self heated

3197 Dr 97 = 80 Fe 20 Tungsten
3198 Non pyrophoric Not Hg —

3199 Dr 9 97 80 Fe 20 Tungsten
3200 5% HgO Non pyro —

3201 Dr 9 101 70 Fe 30 Tungsten
3202 5% HgO Self heated

3203 Dr 9 101 70 Fe 30 Tungsten
3204 5% HgO Non pyro

3205	6
495	560
515	540
337	350
450	462
500	500
845	900

3207	8
615	570
1075	1060
712	856
712	937
750	1000
1110	1412

3209	10
1010	1020
1100	1150
743	725
737	875
750	962
1195	1300

3211	12
230	250
170	180
212	200
325	350
462	437
552	540

3213	14
1125	1115
1270	1266
1162	1250
1250	1325
1312	1375
1620	1570

3205 Dr 9 101 -
3206 Nonpyro ~~#~~ NoHgO — 80 finishing 70 7+ 20 Temper pkg 30 minutes — [illegible] pkg

3207 Ra 862
3208 14% HgO —

3209 Ra 863
3210 14% Hg —

3211 Ra 864
3212 5% HgO —

3213 Ra 868 —
3214 5% HgO

3215–16	
870	945
1025	1100
800	875
862	937
962	1000
1300	1372
3217–18	
1310	1300
975	915
737	712
812	812
787	875
1195	1197
3219–20	
565	545
1215	1150
662	674
837	800
950	950
1245	1275
3221–2	
1100	990
1285	1155
1062	937
1081	993
1250	1125
1520	1415

3223–4	
1050	1035
1065	1050
800	750
750	750
837	837
1155	1180
3225–26	
885	900
990	960
350	312
312	300
350	350
775	755

3215 Orig 98 85 Fe 15 Tungsten
3216 Self Heated 5% HgO

3217 Orig 98 85 Fe 15 Tungsten
3218 Non pyro 5% HgO

3219 Orig 105 90 Fe 10 Tungsten
3220 Non pyro 5% HgO

3221 Orig 105 90% Fe 10 Tungsten
3222 Self Heated

3223 Orig 136 Self heated 5% HgO
3224 Fe 95 Wo Bronze (yellow) 5%

3225 Orig 136 Non pyro 5% HgO
3226 Fe 95 Wo Bronze (yellow) 5%

3227-28	
945	970
200	425
75	81
75	81
100	100
190	155
3229-30	
900	980
700	730
462	500
431	456
500	500
825	840
3231-2	
1115	1110
925	915
687	625
625	587
687	625
1026	990
3233-4	
1075	1080
1000	1000
712	725
625	593
725	700
1182	1215
3235-6	
1465	1450
1295	1290
875	925
750	875
931	993
1425	1425

3237-8	
940	937
940	920
731	687
625	625
700	687
1115	1100

√ + Sb

3227 Drl 94 80% 15 Sb
3228 Non pyro. 5% H_2O.

3229 Drl 78 Self H - 80% 15 Cu 5 Pb
3230 5% H_2O

3231 Ferric Sodium Oxalate.
3232 Non pyro 14% H_2O -

3233 Drl 126 Self H.
3234 5% H_2O Fe 75% Wo Bronze (red) 25%

3235 Drl 75 - Self H - 80% 15 Cu 5.56.
3236 5% H_2O

3237 Drl 129 Self H.
3238 5% H_2O.

Fe 90% Wo Bronze (red) 10%

3239-40

370	270
95	100
37	87
50	37
87	81
137	152

3241-42

597	580
640	630
325	350
312	375
350	350
670	687

3243-44

1050	1040
900	900
1462	625
593	593
693	693
1682	1065

3245-6

1075	1025
1075	1000
825	750
750	715
850	787
1262	1240

3247-8

1075	1075
900	900
675	650
992	990

3249-50

1170	1250
1075	1290
775	937
1215	1410

3239 Dr 93 Nonpyro -
3240 5% H_2O 80 Fe 10 Bi 10 Sb.

3241 Dr G 78 - Non pyro. 80 Fe 15 Cu 5 Pb
3242 5% H_2O.

3243 Dr G 129 - Non pyro
3244 5% H_2O. Fe 90% Wo Oxyge (red) 10%

3245 Dr 128 Self H.
3246 5% H_2O - Fe 85% Wo Oxyge (red) 15%

3247 Ferric Sodium Oxalate.
3248 Self Heated, 14% H_2O

3249 Dr 1 75 80 Fe 15 Cu +5 Sb
3250. Nonpyro - 5% H_2O

3251–2	
962	985
780	800
500	500
987	975
3253–4	
225	175
0	0
3255–6	
100	182
25	21
0	0
3257–8	
1145	1112
215	190
81	75
265	250
3259–60	
1400	1282
362	320
175	162
430	312
3261–2	
1000	957
700	692
600	550
975	975
3263–4	
990	960
580	440
462	375
757	700

Antimony doubt
seem prominent

3251 Dr 9 85 70 Fe
3252 5% H_2O Nonpyro 30 Sb.
7 g

3253 5 grams 85 Fe
3254 Dr 9 87 Selfft – 5% H_2O 15 Sb –

3255 5 grams 85 Fe
3256 Dr 9 87 – Nonpyro 5% H_2O – 15 Sb –

3257 5 grams 80 Fe
3258 Dr 9 93 Selfft. 5% H_2O 10 Sb ✓
6 g. 10 Bi

3259 Dr 9 94 – Selfft. 5% H_2O 80 Fe
3260 15 Sb –
6 grams 5 Bi ✓

3261 5 grams S
3262 Dr 9 125 Nonpyro 5% H_2O
Fe 70 % Wo Bronze (red) 30 %

3263 5 grams S
3264 Dr 9 126 – Nonpyro 5% H_2O
Fe 75 % Wo Bronze (red) 25 %

3265-6	
1000	1020
725	722
562	585
955	960
3267-8	
900	880
885	982
568	465
975	892
3269-70	
925	1050
785	1055
556	925
995	1300
3271-2	
1052	1052
980	955
715	697
1055	1100
3273-4	
725	580
698	665
562	525
815	780
3275-6	
995	1052
982	997
725	750
1126	1155
3277-8	
1132	1145
917	890
925	718
1125	1100

5 gms

3265 Dr 9 128 Nonpyro ?
3266 5% HgO - Fe 85% Wo Bronze (red) 15%

3267 5
3268 Dr 9 130 Nonpyro 5% HgO ?
Fe 95% Wo Bronze (red) 5%

3269 5
3270 Dr 9 134 Nonpyro 5% HgO ?
Fe 85% Wo Bronze (yellow) 15%

3271 5
3272 Dr 9 142 Nonpyro 5% HgO ?
Fe 95% Wo oxide (blue) 5%

3273 Dr 9 154 Nonpyro 5% HgO ?
5,810 g Fe 95% Red Wo Bronze 5%

3275 Dr 9 99 90% 10 Jumpter
3276 Nonpyro 5% HgO -

3277 Dr 9 127
3278 Nonpyro 5% HgO
Fe 80% Wo Bronze (red) 20%

3279–80	
1365	1300
855	890
700	687
1070	1100
3281–2	
1050	1090
1015	997
667	673
1200	1155
3283–4	
1237	1232
980	980
50	670
20	1067
3285–6	
780	777
960	775
675	475
1067	900
3287–8	
940	900
890	822
650	582
995	935
3289–90	
900	1152
792	985
618	775
1032	1177
3291–92	
1365	1500
50	1167
781	825
1152	1270

3279
3280 Drg 155 non pyro
5% HgO

Extra sample in 2 oz bottle

3281
3282 Drg 146 non pyro 5% HgO - 6. grams
Fe 85% Wo oxide (blue) 15%

3283
3284 Drg 77 non pyro 5% HgO. 5.5 gr
Fe 80% Cu 15% Cd. 5%

3285
3286 Drg 137 non pyro 5% HgO. 5.5 grams
Fe 70% Wo oxide (blue) 30%

3287
3288 Drg 134 non pyro 5% HgO.
Fe 85% Wo Bronze (yellow) 15%

3289
3290 Drg 131 non pyro 5% HgO
Fe 70% Wo Bronze (yellow) 30%

3291
3292 Drg 77 Selfheat 80% Fe 15 Cu
5% HgO - 5.5 g
Fe 80% Cu 15% Cd. 5%

3293 Drg 135 non-pyro 5% H_2O_2 90% Fe 10% Wo bronze
3294 Fe 90% Wo Bronze (yellow) 10%

3295 Drg 86. non-pyro 5% H_2O 80% Fe 20% Sb
3296 Fe 80% Sbi 20% as oxalates

3297 Drg 90 non-pyro 5% H_2O 80% Fe 20% Titanium
3298 Fe 80% Titanium 20%

3299 Drg 133 non-pyro 5% H_2O_2
3300 Fe 80% Wo Bronze (yellow) 20%

3301 Drg 90 self-heated 80% Fe 20% Titanium
3302 5% H_2O Fe 80% Titanium 20%

3303 Drg 151 non-pyro
3304 5% H_2O — 6. grm
Fe 80% Wo Bronze (red) 20%

3305 Drg 145 non-pyro 5% H_2O —
3306 Fe 80% Wo oxide (blue) 20%

3297–8

275	280
37	30
0	0
25	27

3301–2

410	425
25	37
0	0
20	25

Note bad Titanium

Titan Bad

3317–18

475	450
400	300
156	125
400	300

3307 Dr 9 139 non-pyro 5% H_2O -
3308 Fe 80% Mo oxide (blue) 20%

3309 86-(B) 9 non-pyro 5% H_2O. 6.5.9
3310 Fe 80% Sb-20% made as hydrates

3311 Dr 9 141 non-pyro 5% H_2O.
3312 Fe 90% Mo oxide (blue) 10%

3313 Dr 9. 138 non-pyro 5% H_2O
3314 Fe 75% Mo oxide (blue) 25%

3315 Dr 9 132 non-pyro 5% H_2O.
3316 Fe 75% Mo Bronze (yellow) 25%

3317 86 (C) 9 - non-pyro 5% H_2O.
3318 Fe 80% Sb. 20% made as nitrates

3319 Dr 9 133. Self heated
3320 5% H_2O Fe 80% Mo Bronze (yellow) 20%

3325		6
100		100
97		100
62		75
100		117

note bad effects Cu + antimony Contin

3321 Dr 9 152 5% H_2O 5.5 g
3322 Non pyrophoric
Fe 85% Wo Bronze (red) 15%

3323 Dr 9 - 150 - Non pyro 5% H_2O 6.5 g
3324 Fe 75% Wo. Bronze (red) 25%

3325 Dr 9 92 Non pyro. 5% H_2O 6 g
3326 Fe 80% Sb 5% Cu 5%

3327 Dr 9 145 Self Heated 5% H_2O
3328 Fe 80% Wo oxide 20%
(blue)

3329 Dr 9 154 Self Heated 5% H_2O
3330 Fe 95% Wo. Bronze (red) 5%

3331 Dr 9 143 Non pyro
3332 5% H_2O Fe 70% Wo oxide
(blue) 30%

3333 Dr 9 138 Self Heated.
3334 5% H_2O - Fe 75% Wo oxide
(blue) 25%

3339-40

740	617
800	670
612	500
770	690

Note poor Sb Cu Coulon

3341-2

1170	1145
920	875
931	815
1300	1230

3335
3336 Dr 9 99 Self heat 5% H_2O

Fe 90% Tungsten 10%

3337
3338 Dr 9 153 Non pyro 5% H_2O — 6g

Fe 90% Wo. Orange (red) 10%

3339
3340 Dr 9 91 — Non pyro. 5% H_2O — 8g

Fe 80% Sb. 10% Cu 10%

3341
3342 Dr 9 87 non pyro 5% H_2O

Fe 85% Sb. 15%

3343
3344 Dr 9 139 — Self Heated 5% H_2O —

Fe 80% Wo. oxide (blue) 20%

3345
3346 Dr 9 125 Self Heated 5% H_2O —

Fe 70% Wo Orange (red) 30%.

3347
3348 Dr 9 144 5% H_2O

Fe 75% Wo oxide (blue) 25%

3349 Dr 9 148 Nonpyro
3350 5% HgO — Fe 95% Wo. Oxide (blue) 5%

3351 Dr 9 89 nonpyro 95 Fe 5 Sb —
3352 5% HgO. bg
Fe 95% Sb. 5%

3353 Dr 9 140 nonpyro —
3354 5% HgO — Fe 85% Wo. Oxide (blue) 15%

3355 Dr 9 146 Self Heated
3356 5% HgO — Fe 85% Wo oxide (blue) 15%

3357 Dr 9 84 Nonpyro 60 Fe 40 Sb.
3358 5% HgO bg
Fe 60% Sb. 40%

3359 Dr 9 141. Self Heated
3360 5% HgO — Fe 90% Wo. oxide 10% (blue)

3361 Dr 9 147 Non pyro
3362 5% HgO Fe 90% Wo. oxide (blue) 10%

3363 Drl 151 Self Heated 5.5 g
3364 5% HgO
Fe 80% Wo. Bronze (red) 20%

3365 Dr 9 155 Self Heated 4 g
3366 5% HgO Extra sample see R. Atlas book

3367 Drl 86 Self heated
3368 5% HgO
Fe 80% Sbr 20%

3369 Drl 76 – Nonpyro 80% Fe 15% Cu
3370 5% HgO 5% Ni 4.g
Fe 80% Cu 15% Ni 5%

3371 Drl 149 – 5% HgO Nonpyro
3372
Fe 70% Wo Bronze (red) 30%
Series 149 – 154 incl (mounted with Ala Meteorite)

3373 Drl 86 B – Self Heated 7 g
3374 5% HgO –
Fe 80% Sb. 20%

3375 Drl 132 Self heated –
3376 5% HgO – Fe 75% Wo. Bronze (yellow) 25%

3377
3378 Dr 9 140 Self Heated
5% HgO Fe 85% Mo oxide (blue) 15%

3379
3380 Dr 9 137 5% HgO - Self Heated.
Fe 70% Mo oxide (blue) 30%

3381
3382 Dr 9 91 - Self Heated 80% 9g
5% HgO 10 Sb
10 Cu

3383
3384 C. 9. Self heated 4.g
5% HgO

3385
3386 Dr 9 157 Self heated
5% HgO Fe 85% MoBornite (red) 15%

3387
3388 Dr 9 127 Self Heated
5% HgO Fe 80% MoBornite (red)
20%

3389 Drl 147 Selfheated
3390 5% HgO Fe 90% Mo Oxide 10%

3391
3392 Drl 130 Selfheated
5% HgO Fe 95% Mo Bronze (Red) 5%

3393
3394 Drl 135 Selfheated
5% HgO Fe 90% Yellow Mo Bronze 10%

3395
3396 Drl 142 Selfheated 4 g
5% HgO Fe 95% Mo Oxide (blue) 5%

3397
3398 Drl 100 Non pyro 4 g
5% HgO Fe 95% Tungsten 5%

3399 Shoops Fe reduced made electrically
3400 5 gr 6.5

3401 Drl 149 Selfheated
3402 5% HgO Fe 70% Red Bronze 30% (Tungsten)

3403
3404 Drg 143 Self Heated
5% HgO — Fe 70% Tungsten Oxide (blue) 30%

Sieves 143 – 148 mesh. No oxide mineral
Ferrous oxalate mixture with the 10% Tungsten
roasted reduced when available

3405
3406 Drg 89 Self heated
5% HgO Fe 95% Sb. 5%

Phenomenon
Both pockets
Split 6-Dry —

3407
3408 Drg 150 Self heated
5% HgO Fe 75% Red Bronze 25% (Tungsten)

3409
3410 Drg 153 Self heated
5% HgO Fe 90% Red Bronze 10% (Tungsten)

3411
3412 Drg 144 Self heated
5% HgO Fe 75% Tungsten (blue) Oxide 25%

3413
3414 Drg 87 Self heated
5% HgO Fe 85% Sb. 15%

3415
3416 Drg 92 Self heated 6.5g
5% HgO — Fe 80% Sb. 15% Cu. 5%

		3415–16	
		170	260
3413 –	14	68	75 –
1745	1760	81	87
862	875 –	142	145 –
1162	1175 –	200	177
1627	1665		
1585	1600		

Note Cu

	1 Volt	½ V	dif	mean in μgm
	3417–18			
	1575	1665		
	1125	1275		
	1050	1281		
	1745	1875		
	1730	1765		
	3419–20			
	1055	1085		
	865	850		
	950	862		
	1485	1425		
	1600	1577		
	3421–2			
	1335	1335		
	837	837		
	956	950		
	1450	1475		
	1465	1465		
3427	150	250		
3428	180	255		
3429	165	230		
3430	172	245		

3417 Drl 100 self Heat
3418 5% HgO Fe 95% Wo 5%

3419 Drl 76 self heat
3420 5% HgO Fe 80% Cu 15% Ni 5%

3421 Drl 148 self Heated
3422 5% HgO 95% Fe 5%
(blue) Lampatic Oxide

3423 Drl 84 self heated
3424 5% HgO Fe 60% Bl. 40%

3425 Drl 131 self heated
3426 5% HgO Fe 70% yellow Wo
Bronze 30%

3427 no 1 G – non pyro 5% Hg 80 Fe 20 WO –
3428 3.5 grms –

3429 no 2 G non pyro – 80 Fe 20 WO
3430 4 grms

	Volt	V2V	def	μ=G
3431	95	130		
3432	95	130		
3433	40	50		
3434	67	75		
3435	55	62		
3436	48	50		
3437	850	1200		212
3438	855	1215		
3439	1075	1500		218
3440	1110	1485		
3441	1277	2100		258
3442	1230	2070		
3443	1027	1850		250
3444	970	1767		

3431
3432 } No 2 G self heated 5% H_2O - 80% 20 W
4 grm

3433
3434 } No 3 G non pyro 5% H_2O 80% 20 Wo
4 grm

3435
3436 } No 3 G Selfheated 5% H_2O 80% 20 Wo
4 grm

3437
3438 } No 4 G = non pyro 5% H_2O 80% 20 Wo
4 grm

3439
3440 } No 4 G self h 5% H_2O 80% 20 Wo
5 grm

3441
3442 } No 1 B - non pyro 5% H_2O 80% 20 Bi
4 grm

3443
3444 } No 1 B self H 5% H_2O 80% 20 Bi
4 grm

	Volt	V2V	di	μ9	
3445	1035	1535		400	0
3446	1000	1470			
3447	1455	2162		365	
3448	1467	2115			
3449	1390	2200		340	
3450	1335	2175			
3451	1280	2087		320	
3452	1280	2100			
3453	1665	1972		334	
3454	1680	1940			
3455	1485	2010		361	
3456	1450	1970			
3457	1405	2135		278	
3458	1375	2082			
3459	1170	1890		399	0
3460	1225	1962			
3461	1065	1875		300	
3462	1035	1865			

3445 } No 2 B non pyro 5 HgO - 80 Fe 20 Bi 2½ grm
3446

3447 } 2 B - self H - 5 HgO - 80 Fe 20 Bi 4 grm
3448

3449 } 3 B - non pyro 5 HgO - 80 Fe 20 Bi 4 grm
3450

3451 } 3 B - self H - 5 HgO 80 Fe 20 Bi 4 grm
3452

3453 } 4 B non pyro 5 HgO 80 Fe 20 Bi 5 grm
3454

3455 } 4 B - self H - 5 HgO 80 Fe 20 Bi 4 grm
3456

3457 } 5 B non pyro 5 HgO - 80 Fe 20 Bi 5 grm
3458

3459 } 6 B non pyro 5 HgO - 80 Fe 20 Bi 3 grm
3460

3461 } 6 B self H 5 HgO 80 Fe 20 Bi 3.5 grm
3462

	Volt	½ V	dif	to V 1 gram
3463	1465	2072		365
3464	1460	2080		
3465	1345	2060		336
3466	1342	2100		
3467	1340	2177		337
3468	1360	2077		
3469	1090	1575		359
3470	1065	1700		
3471	1200	1885		317
3472	1335	2075		
3473	1060	1967		270
3474	1100	1990		
3475	1330	1985		449
3476	1365	1950		
3477	685	957		
3478	625	930		

3463
3464 } 7 B non pyro 5 HgO 80 Fe 20 Bi 4 grm

3465
3466 } 8 B non pyro 5 HgO 80 Fe 20 Bi 4 grm

3467
3468 } 9 B non pyro 5 HgO – 80 Fe 20 Bi 4 grm

3469
3470 } 10 B non pyro 5% HgO 80 Fe 20 Bi 3 grm

3471
3472 } 11 B – non pyro 5% HgO 80 Fe 20 Bi 4 grm

3473
3474 } 11 B Self H. 5 HgO – 80 Fe, Bi 20 4 gr

3475
3476 } L.O. No 1 non pyro 5 HgO ferrous ammonium sulphate 3 grams –

3477
3478 } L.O. 3 non pyro 5 HgO 80 Fe Mg 20 3.5 grm

3479	677				
3480	775				
3481	1447	2067		344	
3482	1305	1865			
3483	412	625			
3484	432	675			
3485	900	1365			
3486	1055	1550			
3487	300	675			
3488	260	600			
3489	275	480			
3490	275	517			
3491	1222	1945		312	m 16% Kott. t. V 1600
3492	1270	1917			1630
3493	260	270			
3494	260	270			

3479 } 3 L.O. sulph 5 H2O 80 Fe 20 Mg 4 grms
3480

3481 } 4 L.O. nom pyro 5 H2O - 80 Fe 20 Zn 4 gr
3482

3483 } 8 L.O - nom pyro 5 H2O. Fe acetate 5 g -
3484

3485 } 9 L.O. nom pyro 5 H2O - Ferrous Carbonat. 5 gr
3486

3487 } 10 L.O nom pyro 5 H2O - ferric Chl 5 - nit 5 grms - 4 grms
3488

3489 } 10 L.O sulphat 5 H2O - Ferric 5 Chl 4 g
3490

3491 } 14 L.O - nom pyro 5 H2O 80 Fe 20 Cu 4 g
3492

3493 } No 1 G sulph 5 H2O 80 Fe 20 Wo 4 g
3494

			per 7 hr	
3495	1087	1530	246	
3496	1200	1547		
3497	1450	2057	347	in 16% NaOH, 1630 1570 — 4 liters Ni
3498	1330	1866		
3499	300	325		
3500	300	320		
3501	1180	1730	285	
3502	1100	1617		
3503	1400	1800	277	in 16% NaOH, 1730 1740 — 4 liters
3504	1372	2010		
3505	1280	1995	335	in 16% NaOH 1737 1645 — 4.5
3506	1400	1975		
3507	1100	1910	281	
3508	1200	1995		
3509	1282	1925	314	16% NaOH 1690 1392 — 4 liters Ni
3510	1235	1925		

3495, 3496 } 20 Ni Selft H 5 H_2O – Ferrous Ammonium Sulfate 4 grams

3497, 3498 } 4 Co – Selft H – 5 H_2O 80 Fe 20 Fer 4 gr

3499, 3500 } 8 Co Selft H 5 H_2O – Ferric Acetate 4 grams

3501, 3502 } 9 Co – Selft H – 5 H_2O – Ferrous Carbonate 4 grams

3503, 3504 } 14 Co – Selft H – 5 H_2O – 80 Fe 20 Cu 5 grams

3505, 3506 } 5 B – Selft H 5 H_2O – 80 Fe 20 Bi 4 grams

3507, 3508 } 8 B Selft H 5 H_2O 80 Fe 20 Bi 4 grams

3509, 3510 } 7 B – Selft H 5 H_2O 80 Fe 20 Bi 4 g

			per gram Fe	
3511	1342	1917	335	16% water free basis
3512	1340	1910		1690 -
				1700 -
3513	1000	1660		
3514	1000	1690	250	
3515	290	1090		
3516	290	1065		
3517	962	1420		
3518	1030	1487		
3519	740	987		
3520	525	761		
3521	985	1455		
3522	1000	1470		
3523	680	1170		
3524	630	1037		
3525	740	1070		
3526	695	1037		

3511 } 9 B - Self H. 5 Hgo - 80 Fe 20 Bi 4 gr
3512

3513 } 10 B - Self H. 5 Hgo - 80 Fe 20 Bi 4 grm
3514

3515 } 85 G Self H 5 Hgo 70 Fe 30 Co 5 grm
3516

3517 Drg 5. Non pyro 5% Hgo Fe 80 Wo 20
3518 4 grm

3519 Drg 5 Self H - 5% Hgo - Fe 80 Wo 20
3520 4 grm

3521 Drg 6 non pyro 5% Hgo 80 Fe Wo 20
3522 + phosphorous
4 grm

3523 Drg 6 Self H treated 5% Hgo 80 Fe 20 Wo + Phosphorous
3524 4 grm

3525 Drg 7 - Non pyro 5 Hgo - 80 Fe 20 Wo +
3526 phosphorous
3.5 grm

			kg gmw Fe
3527	630	917	
3528	685	1000	
3529	5	7	
3530	5	7	
3531	5	7	
3532	5	7	
3533	1500	2145	371
3534	1470	2190	
3535	1130	1930	390
3536	1192	1970	
3537	1350	1985	350
3538	1452	2110	
3539	1530	2030	349
3540	1267	2045	
3541	500	870	
3542	500	855	
3543	685	970	
3544	655	855	

3527 Drg 7 selfH - 5Hgo - 80 Fe 20 Wor phosphorous
3528 3.5 grm

3529 DrG 81 nonpyro 5Hgo - Fe - - - -
3530 4 grm

3531 Drg 81 selfH 5Hgo - Fe - - -
3532 4 grm

3533 B - 12 - nonpyro 5Hgo 80 Fe 20 Bi
3534 4 grm

3535 B 12 selfH 5Hgo 80 Fe 20 Bi
3536 4 grm

3537 B 13 nonpyro 5Hgo - Fe 80 Bi 20
3538 4 grm

3539 B 13 Selfheated 5Hgo - Fe 80 Bi 20
3540 4 grm

3541 B 14 - nonpyro - 5Hgo Fe 80 Bi 20
3542 4 grm

3543 B 14 selfH 5Hgo Fe 80 Bi 20
3544 5 grm

			Bi grain 7z
3545	1545	2025	289
3546	1350	2015	
3547	1600	2130	314
3548	1547	2060	
3549	575	1095	
3550	500	1005	
3551	505	960	
3552	500	840	
3553	1165	1740	225
3554	1087	1650	
3555	1167	1950	260
3556	1175	1915	
3557	1300	2025	260
3558	1295	1900	
3559	1485	1920	281
3560	1325	2040	

3545 B 15 Nonpyro 5Hgo - 7z 80 Bi 20
3546 5 grms.

3547 B 15 Selfbrazed 5Hgo 7z 80 Bi 20
3548 5 grms

3549 B 16 Nonpyro 5Hgo 7z 80 Bi 20
3550 5.5 grms

3551 B 16 Selfb - 5Hgo 7z 80 Bi 20
3552 5 grms

3553 B 17 Nonpyro 5Hgo - 80 7z 20 Bi 5 grms
3554

3555 B 17 Selfbrazed 5Hgo 80 7z 20 Bi
3556 4.5 grms

3557 B 18 Nonpyro 5Hgo - 80 7z 20 Bi
3558 5 grms

3559 B 19 Nonpyro 5Hgo 80 7z 20 Bi
3560 5 grms

			per gram
3561	920	1507	
3562	917	1457	
3563	1185	1860	
3564	1130	1802	
3565	970	1570	
3566	905	1750	
3567	860	1420	
3568	900	1500	
3569	730	1240	
3570	750	1250	
3571	1445	1850	288
3572	1440	1900	
3573	1540	1930	306
3574	1540	1925	
3575	800	1250	
3576	1025	1602	
3577	1130	1715	279
3578	1250	1900	

3561 B 19 Selfft 5Hgo 80 Fe 20 Bi
3562 5 grms

3563 B 20 Nonpyro 5Hgo 80 Fe 20 Bi
3564 5 grms

3565 B 20 Selfft 5Hgo 80 Fe 20 Bi
3566 5 grms

3567 B 21 Nonpyro 5Hgo 80 Fe 20 Bi
3568 5 grms

3569 B 21 Selfft 5Hgo 80 Fe 20 Bi
3570 5 grms

3571 B 22 Nonpyro 5Hgo 80 Fe 20 Bi
3572 5 grms

3573 B 22 Selfft 5Hgo 80 Fe 20 Bi
3574 5 grms

3575 W No 1 Non pyro 5Hgo Fe stannate,
3576 5 grms

3577 W No 1 Selfft ~~zalad~~ 5Hgo Fe stannate
3578 5 grms

			Reagent
3579	855	1235	
3580	900	1300	
3581	1045	1250	
3582	1050	1260	
3583	875	1470	
3584	915	1400	
3585	805	1300	
3586	645	975	
3587	985	1510	
3588	775	1200	
3589	1000	1500	
3590	1015	1510	
3591	1475	2050	40
3592	1446	2020	
3593	1265	1900	360
3594	1260	1925	
3595	1500	2060	300
3596	1500	1940	

3579 W 2 non pyro 5Hgo 80 Fe Sn 20
3580 4 grms

3581 W 2 Selfft 5Hgo – 80 Fe Sn 20
3582 5 grms

3583 W 3 non pyro 5Hgo 80 Fe 20 Sn
3584 5 gr

3585 W 3 Selfft 5Hgo 80 Fe 20 Sn
3586 5 gr

3587 W 4 non pyro 5Hgo 80 Fe 20 Sn
3588 5 gr

3589 W 4 Selfft Scaled 5Hgo 80 Fe 20 Sn
3590 5 gr

3591 W 6 - non pyro 5Hgo 80 Fe 20 Copper
3592 3.5 g

3593 W 6 Selfft 5Hgo 80 Fe 20 Cu
3594 3.5 g

3595 W 7 non pyro 5Hgo – 80 Fe 20 Cu
3596 5 gr

3597	1490	1900	302
3598	1535	2065	
3599	425	695	
3600	485	645	
3601	420	640	
3602	330	435	
3603	1230	1920	
3604	1185	1865	
3605	1360		269
3606	1335		
3607	1500	2155	449
3608	1630	2195	
3609	1550	1940	387
3610	1550	1900	
3611	685	950	
3612	645	895	
3613	490	665	
3614	415	455	

3597 W 7 Sulph 5Hgo 80 Fe 20 Cu
3598 5 gr

3599 W 8 Nonpyro 5Hgo - 80 Fe Cu 20
3600 4.5 g

3601 W 8 Sulph 5Hgo 80 Fe 20 Cu
3602 5 gr.

3603 W 10 Nonpyro 5Hgo - Fe 80 Cu 20
3604 5 gr

3605 W 10 Sulph 5Hgo 80 Fe 20 Cu
3606 5 gr

3607 W 11 Nonpyro 5Hgo 80 Fe 20 Cu
3608 3.5 g

3609 W 11 Sulph 5Hgo 80 Fe 20 Cu
3610 4 gr

3611 W 12 Nonpyro 5HgO - 80 Fe 20 Cu
3612 4 gr

3613 W 12 Sulph " "
3614 4.5 gr

3615	1120	1850
3616	1215	2070
3617	1045	1280
3618	1140	1630
3619	890	1440
3620	1065	1560
3621	940	1395
3622	1055	1435
3623	440	560
3624	665	865
3625	635	675
3626	460	535
3627	1310	1865
3628	1340	1675
3629	875	970
3630	950	1075

3615 Glasier 1 nonpyro 5 Hgo 80 72 20 56
3616 5 gr

3617 Glasier 1 Seleff 5 Hgo 80 72 20 56
3618 5 gr

3619 Glasier 2 nonpyro " "
3620 5 gr

3621 Glasier 2 Seleff " " 5 gr
3622

3623 Glasier 3 nonpyro " " 5 gr
3624

3625 Glasier 3 Seleff " " 5 gr
3626

3627 Glasier 4 nonpyro " " 5 gr
3628

3629 Glasier 4 Seleff " " 4.5 gr
3630

3631	535	875	glassy
3632	600	880	
3633	345	575	
3634	315	555	
3635	930	1385	
3636	1010	1385	
3637	525	1225	
3638	530	1190	
3639	555	1100	
3640	600	1260	
3641	1325	1930	
3642	1340	2050	
3643	1440	2025	320
3644	1455	2095	
3645	1115	1200	252
3646	1140	1190	

3631 Glasses 5 nonpyro 5 H_2O 80 Fe 20 Sb 4 gr
3632

3633 Glasses 5 Sulfit – " " 4 gr
3634

3635 Glasses 6 – nonpyro " " 4 gr
3636

3637 Glass 7 nonpyro " " 4 gr
3638

3639 Glass 7 Sulfit " " 5 gr
3640

3641 Glasses 6 sulfit. 5 H_2O $Fe_2(OH)_6$ 5 gr
3642

3643 Glasses 8 nonpyro 5 H_2O. Fe 80 Sb 20 4.5 g
3644

3645 Glasses 8 Sulfit 5 H_2O 80 Fe 20 Sb 4 gr
3646

3647	1435	2045	
3648	1435	1975	
3649	590	1050	
3650	630	1090	
3651	490	900	
3652	490	800	
3653	225	480	
3654	200	425	
3655	360	700	
3656	280	495	
3657	770	1225	
3658	830	1295	
3659	1350	2000	
3660	1380	2125	2/3
3661	1300	1950	
3662	1435	2040	2/3

3647 B-18-Seqft 5Hg0 Fe80 Bi20 5 gr
3648

3649 Drl 8 nonpyro-5Hg0-Fe80Wo20 5 gr
3650

3651 Drl 8 Seqft-Hg05% 80Fe20Wo 5 gr
3652

3653 Drl 9 nonpyro-5Hg0-80Fe20Wo20 5 gr
3654

3655 Drl 9 seqft 5Hg0 " 5
3656

3657 Drl 10 nonpyro5Hg0 " 5 gr
3658

3659 Drl 10 Seqft. 5Hg0 " 5 gr
3660

3661 Drl 11 nonpyro 5Hg0 " 5 gr
3662

3663	1300	1690
3664	1335	2025
3665	865	1660
3666	885	1690
3667	590	1195
3668	590	1065
3669	980	1410
3670	930	1345

3663 Dry 11 selfft 5Hgo 80 7 20 WO. 5 qt
3664

3665 Dry 12 nonpyro 5Hgo - " 5 qt
3666

3667 Dry 12 Selfft 5Hgo " 5 qt
3668

3669 W 29 nonpyro 5Hgo 4
3670 Prussian Blue (Baker Blue) -

Note Have condition & OK to set up 2 coolers Fresh with 2 Reg ni tubes for Each iron Ra No 862 - has all been sent

Ra No 863

Ra No 868

	V	½ V	
3671	1100	1800	
3672	1105	1755	
3673	1400	2075	272
3674	1320	2050	
3675	1400	2030	267
3676	1475	2130	
3677	265	730	
3678	290	920	
3679	270	425	
3680	225	500	
3681	1170	1750	290
3682	1155	1725	
3683	1275	1770	309
3684	1195	1795	

3671 } da W 20 selfft 5Hg0 4 gr
3672 } Prussian blue (Baslin blue)

3673 B-30 nonpyro 5Hg0 5 gr
3674 80% B. 20

3675 B 30 Selfft 5Hg0 5 gr
3676 80% B. 20

3677 nonpyro 5Hg0 5 gr
3678 G 15

3679 G.15 Selfft 5Hg0 4 gr
3680

80% W 20

3681 } G 16 S nonpyro 5Hg0 4 gr
3682 }

Red 10 G
double from
Ra 16 w and
80% W 20

3683 G16 S selfft 5Hg0 4
3684

G16 S

3685	610	965
3686	590	910
3687	530	680
688	530	683
3689	600	995
90	610	965
3691	575	645
3692	515	580
3693	620	1055
3694	395	495
3695	350	430
3696	410	475
3697	1035	1525
3698	1035	1500
3699	1090	1775
3700	1325	2060

3685 } G 17 non pyro 5Hg 5 gr
3686 } 7Fe 80 Wo 20

3687 } G 17 Scoff H 5Hg0 - 5
3688 } 80 7Fe 20 Wo

3689 } G 21 - non pyro 5Hg0 - 5
3690 } 80 7Fe 20 Wo

3691 } G 21 Scoff. 5Hg0 4 gr
3692 } 80 7Fe 20 Wo

3693 } G 22 non pyro 5Hg0 5 gr
3694 } 80 7Fe 20 Wo

3695 } 22 G Scoff. 5Hg0 4 gr
3696 } 80 7Fe 20 Wo

3697 } 23 G non pyro 5Hg0. 5 gr
3698 } 80 7Fe 20 Wo

3699 } 23 G Scoff. 5Hg0 4 gr
3700 } 80 7Fe 20 Wo

3701	865	1500
3702	875	1525
3703	860	1540
3704	860	1490
3705	775	1275
3706	750	1250
3707	995	1610
3708	1000	1640
3709	1010	1710
3710	1055	1845
3711	1230	1775
3712	1300	1970
3713	605	1030
3714	905	1190
3715	690	1105
3716	840	1415

3701 } B 28 non pyro 5%Hgo 7 grm
3702 } 7680 Bi 20

3703 B 28 Self ft 5%Hgo 7 grm 80 Fe 20 Bi
3704

3705 } B 31 non pyro 5%Hgo 7 gr
3706 } 80 Fe 20 Bi

3707 B 31 Self ft, 5%Hgo 7 grm
3708 80 Fe Bi 20

3709 } B-35 non pyro 5%Hgo 5 grm
3710 } 80 Fe 20 Bi

3711 B 35 Self ft 5%Hgo-6 grms
3712 80 Fe 20 Bi

3713 } B 36 non pyro 5%Hgo. 6 grms
3714 } 80 Fe 20 Bi

3715 } B 36 Self ft 5%Hgo-6 grms
3716 } 80 Fe 20 Bi

3717	840	1320
3718	840	1315
3719	940	1515
3720	905	1465
3721	735	750
3722	115	125
3723	765	780
3724	270	280
3725	1500	2130
3726	1315	1315
3727	1530	2195
3728	1555	2035
3729	1100	1660
3730	1260	1910
3731	1260	1925
3732	1510	1840

all 5% Hg0

3717 B37 nonpyro 5 gr 80% 20 Bi
3718

3719 — B37 SHsalad 5 gr 80 Fe 20 Bi
3720

3721 } W 13 nonpyro 5 gr 80% Fe 20 Zn
3722

3723 } W 13 Scaft 5 gr "
3724

3725 } W 15 nonpyro 5 gr 80% 10 Cu
3726 10 Sn 10 Zn

3727 W 15 Scaft. 5 gr "
3728

3729 } W 34 nonpyro 4 gr 7% 80 Cu 20
3730

3731 W 34 Scaft. 5 gr "
3732

3733	1050	1670
3734	1035	1625
3735	1400	1800
3736	1300	1640
3737	1180	1800
3738	990	1360
3739	1115	1550
3740	1155	1600
3741	460	780
3742	100	130
3743	425	870
3744	420	970
3745	1545	1815
3746	1510	1895
3747	1545	2145
3748	1500	2300

3733 } W44 nonpyro 4.5 gr plain iron
3734 }

3735 W44 Sceft. 5 gr "
3736

3737 glasser 9 nonpyro 6 gr 8072 2056
3738

3739 } glasser 9 Sceft. 6 gr "
3740 }

3741 } glasser 10 Nonpyro 6 gr "
3742 }

3743 } glasser 10 Sceft. 5 gr "
3744 }

3745 } glasser 11 Nonpyro 5 gr "
3746 }

3747 } glasser 11 Sceft. 4.5 gr "
3748 }

	1V	½V
3749	1288	1855
3750	1235	1810
3751	875	1310
3752	590	930
3753	1095	1460
3754	1220	1580
3755	260	95
3756	370	270
3757	1200	1795
3758	1115	1680
3759	870	1490
3760	865	1485
3761	690	840
3762	715	890
3763	1230	1630
3764	1235	1735
3765	1175	1565
66	1170	1635

5% Hg O in all

3749 } Dr 9 41 Selfff 80% 20 Cu this is one you wanted
3750 } made over 4 grms

3751 } Dr 9 13 – Nonpyro 80% 20 Wo.
3752 } 6 grms

3753 } Dr 9 13 Selfff "
3754 } 5 grms

3755 } Dr 9 18 nonpyro "
3756 } 6 grms

3757 } Dr 9 18 Selfff "
3758 } 4.5 grms

3759 } Dr 9 21 non pyro "
3760 } 4.5 grms

3761 } Dr 9 21 Selfff "
3762 } 4.5 grms

3763 } Dr 9 24 nonpyro "
3764 } 5 grms

3765 } Dr 9 24 Selfff "
3766 } 4 grms

3767	805	1020	
3768	705	950	
3769	1035	1475	
3770	1125	1560	
3771	1425	1920	
3772	1440	1925	
3773	1190		
3774	1175		
3775	915	1175	
3776	960	1130	
3777	450	750	
3778	150	290	
3779	1340	1815	
3780	1285	1755	
3781	955	1260	5
3782	320	370	1

3767 } Drl 25 non pyro 80% Fe 20 Wo
3768 } 5 grms

3769 } Drl 25 Sclfft 5 grms "
3770 }

3771 } Drl 26 non pyro 4.5 grms "
3772 }

3773 } Drl 26 Sclfft. 4 grms "
3774 }

3775 } Drl 27 non pyro 4 grms "
3776 }

3777 } Drl 27 Sclfft 4.5 grms "
3778 }

3779 } Drl 28 non pyro 4.5 grms "
3780 }

3781 } Drl 28 Sclfft 7 grms "
3782 }

3783	995	1475
3784	1195	1765
3785	1015	1420
3786	1210	1790
3787	675	1435
3788	720	1445
3789	450	765
3790	430	805
3791	1425	1805
3792	535	1135
3793	1000	1585
3794	1390	2000
3795	445	805
3796	415	700
3797	380	700
3798	385	700

5

3783 Glaster 12 Non pyro 80 Fe 5b 20
3784 .5 grms

3785 } Glaster 12 Sceff ff "
3786 } .5 grms

3787 } Glaster 13 Non pyro "
3788 } 4 grms

3789 } Glaster 13 Sceff ff, "
3790 } 3 grms

3791 } Glaster 14 Non pyro "
3792 } 4.5 grms

3793 } Glaster 14 Sceff ff "
3794 } 4.5 grms

3795 } Glaster 15 Non pyro "
3796 } 3.5 grms

3797 } Glaster 15 Sceff ff "
3798 } 3.5 grms

3799	1400	1990
3800	1435	2050
3801	1530	1885
3802	1575	2035
3803	1385	2030
3804	1345	1990
3805	1400	1900
3806	1445	1975
3807	1125	1875
3808	1050	1730
3809	1100	1955
3810	915	1650
3811	1045	1665
3812	1090	1835
3813	750	1050
3814	780	1075

all 5% HgO —

3799 } B 24 non pyro 7.80 B. 20
3800 } 6 grms

3801 } B 24 Scelfff "
3802 } 5 grms

3803 } B 33 non pyro "
3804 } 5 grms

3805 } B 33 Scelfff "
3806 } 5 grms

3807 } B 39 Nonf "
3808 } 3.5 grms

3809 } B 39 Scelfff "
3810 } 4.5 grms

3811 } B 40 Nonf "
3812 } 4 grms

3813 } B 40 Scelfff "
3814 } 3.5 grms

3815	1230	1800
3816	1270	1755
3817	1440	1700
3818	1350	1775
3819	1300	1775
3820	1225	1700
3821	1425	1750
3822	1375	1700
3823	1600	1870
3824	1580	1800
3825	1685	2015
3826	1665	2045
3827	870	845
3828	895	835
3829	1420	1850
3830	1420	1770

3815 B43 NonP 5 grms 80Fe20 Pt

3817 B43 Scaft 5 grms "

3819 W 34 NonP- 4 grms Fe80 Cu20

3821 W 34 Scaft 4 grms "

3823 W 49 NonP 4.5 grms Cupriferous Sodium sulphide

3825 W49 Scaft 4.5 grms "

3827 Sphalerite 16 NonP 5Hg0- 4.5 Fe80 Sb20

3829 Sphalerite 16 Scaft. 5Hg0 4.5 "

3831	595	930
3832	635	955
3833	1350	1635
3834	1395	1690
3835	295	470
3836	320	485
3837	5	6
3838	10	15
3839	1300	1655
3840	1300	1690
3841	1300	1680
3842	1310	1765
3843	1000	1495
3844	985	1770
3845	1075	1855
3846	1065	1845

3831 } Phenolsulfon 17 Nonpyro 72 80 5b 20
3832 } 5 Hydro 3 grms

3833 } Phenolsulfon 17 Sulfoth. 5 Hydro "
3834 } 3 grms

3835 } Phenolsulfon 18 Nonpy 5 Hydro "
3836 } 5 gr

3837 } Phenolsulfon 18 Sulfoth "
3838 } 4 grm

3839 } Phenolsulfon 19 Nonpyro "
3840 } 5 Hydro 4 grms

3841 } Phenolsulfon 19 Sulfoth 5 Hydro "
3842 } 4.5 grms

3843 } W 28 nonp 5 Hydro Halchettes Brown
3844 } 5 gr

3845 } W 28 sulfoth 5 Hydro "
3846 } 5 gr

3847	790	1300	
3848	785	1265	
3849	790	1300	
3850	790	1300	
3851	1200	1695	
3852	1200	1675	
3853	1370	1675	
3854	1260	1700	
3855	1495	1855	
3856	1455	1785	
3857	1570	1750	Holland Effcy 6618 66 —
3858	1475	1630	
3859	365	650	
~~3860~~			
3861	295	595	

3847 } W 32 non 5 H_2O
3848 } 4.5 g

3849 W 32 Sulph "
3850 4.5 g

} Ferrous Cupric ammon chloride fusion

3851 } W 33 non 5 H_2O
3852 } 6 gr

3853 } W 33 Sulph 5 H_2O
3854 } 5 gr

} Fe_2O_3 + NH_4Cl fusion

3855 } W 41 non pyro 5 H_2O
3856 } 4.5 g

3857 } W 41 Sulf "
3858 } 4 gr

} Ferrous ammonia sulfate fusion

3859 } W 42 non p 5 H_2O
~~3860~~ } 4.5 one pocket

3861 W 42 Sulf
~~3862~~ 4.9 gr one pocket

} Ferrous Zinc Sulfate + NaCl fusion

3863	1100	1650	
3864	1145	1655	
3865	1145	1400	
3866	1060	1330	
3867	1325	1725	Holland 65.9 65.8 watt effy
3868	1390	1825	
3869	1600	1845	Holland 68.5 68.4 effy watt
3870	1425	1695	
3871	1000	1695	
3872	995	1755	
3873	1215	1880	
3874	1220	1940	
3875	1175	1685	
3876	1220	1775	
3877	1540	1835	Holland effy 67.4 62.2 watt
3878	1315	1830	

4.5 | 1600 | 3.5
1350
3250
2/2

3863 } W 43 non p → 5 H_2O. 4 grs
3864 }

3865 } W 43 Sel ft " 4.5 grs
3866 }

Ferrous Zinc Sulfate Fusion

3867 } W 48 non p 5 H_2O 4.5 g
3868 }

3869 } W. 48 Sel ft 5 H_2O 4.5 g
3870 }

Cupric Ferrous Ammon Sulfate Fusion

3871 } W 50 non 5 H_2O 8 grs
3872 }

3873 } W 50 Sel ft. " 6 grs
3874 }

Ferrous Sodium Nitrate Fusion -

3875 } W 51 non 5 H_2O 5.5 grs
3876 }

3877 } W 51 Sel ft. 5.5
3878 }

Fe 80 Cu 10 Sn 10 Zn 10 Cd 10 by parts Fusion

3879	1295	1865
3880	1190	1780
3881	1540	1890
3882	1420	1620
3883	1300	1700
3884		
3885	1390	1745
3886	1450	1895
3887	785	1300
3888	675	1120
3889	970	1600
3890	900	1575
3891	125	200
3892	750	1365
3893	40	50
3894	100	125

Holland 67.3 68.4 courtesy

Hot test 50 Runs good
before 1575 after 1625
1627 1550

4 | 1625
463

3879 } W 53 Non 5Hgo 4.5gr
3880 }

3881 } W 53 Seeff " 5 gr
3882 }

} Fe_2O_3 + NaCl + Na_2SO_4 fusion

3883 } W 54 non 5Hgo - 4.5g
3884 }

3885 } W 54 Seeff " 4 gr
3886 }

} ferrous ammonium sulfate have trouble in sensitive range

3887 } B 23 Non 5Hgo 80 Fe 20 Bi
3888 } 5 gr

3889 } B 23 Seef " 5 gr "
3890 }

3891 } B 25 Non " 4.5 gr "
3892 }

3893 } B 25 Seeff " 4.5 "
3894 }

3895	1125	1830	3895	B 27	Non Pyro	5 Hg0 4 grm	80% 20 B.1
3896	1150	1845	3896				
3897	965	1680	3897	B 29	Self	" 4 grm	"
3898	320	495	3898				"
3899	590	760	3899	B 29	Non p	4.5 g	"
3900	390	520	3900				
3901	455	725	3901	B 29	Self H	4 gr	"
3902	395	615	3902				
3903	1300	1760	3903	B 32	Non p	5 gr	"
3904	1300	1700	3904				
3905	1100	1840	3905	B 32	Self H	5 gr	"
3906	1080	1830	3906				
3907	1000	1535	3907	B 38	Non p	6 gr	"
3908	995	1520	3908				
3909	1000	1745	3909	B 38	Self H	6 gr	"
3910	960	1670	3910				
3911	1015	1855	3911	B 41	Self H	5 gr	"
3912	1080	1835	3912				

3913	895	1560	3913 } B 41 Non 5Kgo 5gr 80 7 2 20 B1
3914	900	1600	3914 }
3915	1405	1850	3915 } B 44 Non py 5Kgo 5gr "
3916	1230	1720	3916 }
3917	900	1700	3917 } B 42 Self H, 5 gr "
3918	900	1730	3918 }
3919	685	1430	3919 } B 42. Non pyro 5 gr "
3920	745	1500	3920 }
3921	1200	1860	3921 } B 44 Self H 5 gr "
3922	1325	1930	3922 }
3923	1015	1590	3923 } G 31 Non 4 gr 7 2 80 Wo 20
3924	1048	1685	3924 }
3925	875	1415	3925 } G 32 Non py 4.5 gr "
3926	820	1350	3926 }
3927	47	57	3927 } G 33 Non p 4 gr "
3928	40	50	3928 }

3929	40	50
3930	37	45
3931	720	1155
3932	975	1385
3933	1660	1340
3934	875	1125
3935	1325	1790
3936	1400	1650
3937	1430	1700
3938	1400	1660
3939	1150	1640
3940	1440	1700
3941	670	1215
3942	650	1200

3929 } G 33 self 4 gr Fe_2O_3 80 Wo 20
3930 }

3931 } G 34 non 5 gr "
3932 }

3933 } G 34 Selfth 4.5 gr "
3934 }

3935 } G 36 non p 4.5 "
3936 }

3937 } G 36 Self 5 gr "
3938 }

3939 } G 35 Non 4 gr
3940 }

3941 } W 55 non 6 gr. Fe_2O_3 + NH_4Cl
3942 } directly reduced in hydrogen then
washed in alkaline water
take out last traces chlorides
Fusion point observed in Dammer

3946	1440	1760
3947	1435	1895
3948	1235	1500
3949	1185	1520
3950	600	670
3951	505	600
3952	510	780
3953	510	610
3954	1185	1840
3955	1200	1830
3956	1360	1680
3957	800	1250
3958	1360	1760
3959	1330	1725
3960	1300	1750
3961	1295	1730

3946 } W 47 non pyro 5Hg0 7z only 4 gr
3947 }

3948 } W 47 Scaft. 4 gr
3949 }

3950 } W 56 - non pyro 7z only 5Hg0 3.5 g
3951 }

3952 W 56 Scaft. 4 gr
3953

3954 B 26 non py 5Hg0 7z 80 B. 20 - 5.5 g
3955

3956 B 26 Scaft. " 6 gr
3957

3958 } B 45 non py 5Hg0 " 3 g
3959 }

3960 } B 45 Scaft - " 3.5 g
3961 }

3962	1425	1680	
3963	1485	1755	
3964	1600	1730	S
3965	1600	1770	"
3966	1560	1675	S
3967	1730	1805	"
3968	1620	1770	
3969	1575	1685	
3970	1565	1840	
3971	1550	1675	
3972	1675	1925	S
3973	1655	1965	
3974	1445	1665	S
3975	1510	1775	"
3976	1515	1775	S
3977	1550	1875	"

3962, 3963	B 46 non p 5Hgo	80 Fe 20 Bi	5 gr
3964, 3965	B 46 Self H.	"	5 gr
3966, 3967	B 47 - Non py 5Hgo	"	5 gr
3968, 3969	B 47 Self H	"	5 gr
3970, 3971	B 48 non p 5Hgo	"	4 gr
3972, 3973	B 48 Self H.	"	4 gr
3974, 3975	B 49 Non pyro 5Hgo	Fe 95 - Bi 5 -	4 gr
3976, 3977	B 49 Self H 5Hgo	95 Fe 5 Bi	4.5 g

3978	1570	1740	S
3979	1570	1790	"
3980	1635	1850	S
3981	1690	2015	"
3982	1530	1795	
3983	1530	1850	
3984	40	55	
3985	370	450	
3986	545	685	
3987	275	350	
3988	870	1285	
3989	375	530	
3990	600	935	
3991	925	1065	
3992	195	225	
3993	195	225	
3994	85	95	
3995	80	90	

3978 } B 50 non py 5Hg0 90Fe 10Bi
3979 } 4 gr

3980 } B 51 - non p 5Hg0 4 gr 99Fe 1Bi
3981 }

3982 B 51 Sec fh "
3983 4 gr

3984 } G 16 - non py 80Fe Wo 20
3985 } 4 gr

3986 } G 16 Sec "
3987 } 4 gr

3988 } G 21 non py 5Hg0 Fe 80 Wo 20
3989 } 5.5 gr

3990 G 29 - Sec fH. "
3991 5 gr

3992 G 36 - non py "
3993 3 gr

3994 } G 36 - Sec "
3995 } 3 gr

3996	1355	1800
3997	1350	1675
3998	1450	1760
3999	1395	1630
4000	990	1280
4001	1085	1570
4002	1345	1930
4003	1395	1955
4004	1535	1990
4005	1500	1800
4006	465	675
4007	500	765
4008	735	1110
4009	750	1180
4010	1385	1745
4011	1335	1625

3996 } G 39 nonp 5 H_2O Fe 80 W 20
3997 } 4.5 gr

3998 } G 39 Sec H "
3999 } 5 gr

4000 } G 42 non py "
4001 } 4 gr

4002 } G 43 non py "
4003 } 5

4004 } G 43 Sec H 5 H_2O "
4005 } 5 gr

4006 } G 44 nonp "
4007 } 5 gr

4008 } G 44 Sec H "
4009 } 4.5 gr

4010 } Glass 20 nonp Fe only
4011 } 4 gr

1/2

4012	1300	1475	$
4013	1430	1590	
4014	465	900	
4015	500	1025	
4016	235	475	
4017	235	475	
4018	45	70	
4019	50	75	
4020	80	115	
4021	80	115	
4022	1070	1495	
4023	1160	1625	
4024	1040	1245	
4025	1100	1430	
4026	1055	1865	
4027	1150	1935	
4028	1000	1645	
4029	1025	1700	

4012 } Shooter 20 Self Fz only
4013

4014 } Shooter 21 - Fz 60 Sb 20 5Hg0
4015 } 5 gr

4016 } Glander 21 self ff "
4017 } 4 gr

4018 } Glander 22 non pg Fz 80 Cu chrom 20)
4019 } 45

4020 } Glander 22 self ff. "
4021 } 5 gr -

4022 } W 57 non Fz only
4023 }

4024 } W 57 self ff "
4025 }

4026 } W 58 non pyro "
4027 }

4028 W 58 self ff "
4029

4030 } W 64 non pg
4031 } Ex Fe direct from the ore

4032 } W 64 secf "
4033 }

4034 } W 65 non p Fe only ore expt
4035 }

4036 } W 65 secf "
4037 }

4038 } W 66 non p Fe only ore expt.
4039 }

4040 } W 66 secf "
4041 }

4042 } W 67 non "
4043 }

4044 } W 67 secf "
4045 }

4046 } W 70 non "
4047 }

4048 } W 74 Non 7z Cu Ore expmt
4049

4050 } W 74 Self "
4051

4052 } W 76 - Non py 7z only ore expmt
4053

4054 } W 76 Self "
4055

4056 } W 77 Non py 7z Zn ore expmt
4057

4058 } W 77 Self "
4059

4060 } W 84 Non p plain non
4061

4062 } W 84 Self "
4063

4064 } G 20 - Non 7z 80 W 20
4065

4066 / 4067	G 30	Self A,	F280 W0 20
4068 / 4069	G 31	non	"
4070 / 4071	G 31	Self	"
4072 / 4073	G 40	non	"
4074 / 4075	G 40	Self	"
4076 / 4077	G 42	Self	"
4078 / 4079	G 46	non	"
4080 / 4081	G 46	Self	"

4082 } 4083 }	G 47 non	7260 W020
4084 } 4085 }	G 47 self	"
4086 } 4087 }	G 50 non	"
4088 } 4089 }	G 50 self	"
4090 } 4091 }	G 51 non	"
4092 } 4093 }	G 51 self	"
4094 } 4095 }	G 52 non	"
4096 } 4097 }	G 52 self	"

4098 / 4099	G 53 non	7280 Wo 20
4100 / 4101	G 53 Seef	"
4102 / 4103	G 54 non	"
4104 / 4105	G 54 Seef	"
4106 / 4107	G 55 non	"
4108 / 4109	G 55 Seef	"
4110 / 4111	G 56 - non	"
4112 / 4113	G 56 - Seef	"

4114 } G 57 non 8072 20 Wo
4115

4116 } G 57 seef "
4117

4118 } G 58 non "
4119

4120 } G 58 seef "
4121

4122 } G 59 seef "
4123

4124 } G 60 non "
4125

4126 } G 60 seef "
4127

4128 } gluten 25 seef 8072 Sb 20
4129

4130
4131 } Glauber 24 self-ff 80 Fe 20 Sb –

4132
4133 } G 59 non Fe 80 Wo 20

4134
4135 } Glauber 24 non py Fe 80 Sb 20

4136
4137 } Glauber 23 self-ff "

4138
4139 } Glauber 23 non "

4140
4141 } B 50 self-ff Fe 80 Bi 20

4142
4143 } B 52 non "

4144
4145 } B 52 self "

4146 } B 53 non Fe 88 Bi 20
4147 }

4148 } B 54 nmpy "
4149 }

4150 } B 54 seef "
4151 }

4152 } B 55 non "
4153 }

4154 } B 55 seef "
4155 }

4156 } B 56 non "
4157 }

4158 } B 56 seef "
4159 }

4160 } B 57 non "
4161 }

4162 } B 57 scif H - 7680 B1 20
4163 }

4164 } B 58 non pyr "
4165 }

4166 } B 58 scif "
4167 }

4168 } B 60 non p "
4169 }

4170 } B 60 scif "
4171 }

4172 Reg 5 gm non assembled with 2
4173 whole pkt, run on hot test.
Enhanced 21% KOH. 2 gm di OH.
4174 End call

4175 Dup 4172
15% Na OH, 2 gm Li OH.
4176 End call —
4177

1.62 run on cartridge
6.29 nickel group

#1059 Fe Loaded by big machine
4178 } bump 100 Corrugate 100
4179

4180
4181

4182
4183

4184
4185

4186
4187

4188
4189

4190
4191

4192
4193

7.15
1.800
14.5
7.15
8.5

6.05
1.800
14.0
4.4
5.4
89%

3 | 1609
5.36
179
7.15

89%
5.39

3 | 1619
5.39

[ITEM FOUND IN BOOK]

90 Fe, 10 Sn	5 Hgo	Self Heated		1675	Platinum Co
~~85 Fe, 15 Sn~~	~~5 Hgo~~	~~Self Heated~~		~~1695~~	~~Platinum Co~~
Fe Stannate	5 Hgo	5 gram	Non Pyro	1025	W
"	"		Self H.	1250	W
80 Fe, 20 Sn	5 Hgo	4 gram	Non pyro	900	W
dito		5 gram	Self Heat	1050	W
dito		5 gram	Non pyro	915	W
dito		5 "	Self H.	805	W
do		5 "	Non Pyro	985	W
do		5 "	Self H.	1015	W

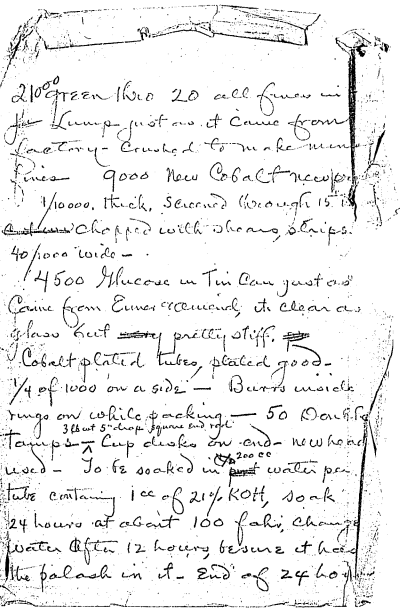
[ITEM FOUND IN BOOK]

			Highest	
80 Fe, 20 Sn	5 Hg 0 5gr	Self Heat,	2170	G
80 Fe, 20 Sn	5 Hg 0 5gr	Non Pyro	2517	G
80 Fe, 20 Sn	5 Hg 0 5gr	Non Pyro 4th Extra Economy test for Hollow)	2899	(mid run
80 Fe, 10 Bi, 20 Sn	5 Hg 0 5gr	Non Pyro	2685	
80 Fe, 10 Bi, 20 Sn	5 Hg 0 5gr	Self Heat	2650	
70 Fe, 30 Sn	5 Hg 0	Self Heat	1935	last run CO
70 Fe, 30 Sn	5 Hg 0	Non Pyro	1875	last run + CO

[ITEM FOUND IN BOOK]

75 Fe / 25 Sn } 5/Hgo	Self Heat		1600	lastrum+Co
75 Fe / 25 Sn } 5/Hgo	Non Pyro		1135	
95 Fe / 5 Sn } 5Hgo	Self H		1587	
95 Fe / 5 Sn } Hgo 5	Non Pyro		1135	lastrum when Co
90 Fe / 10 Sn } Hgo 5	Non Pyro		1340	lastrum when Co
85 Fe / 15 Sn } 5Hgo	Non Pyro		1240	lastrum when Co
65 Fe / 35 Sn } 5Hgo	Non pyro		2000	on lastrum Co
65 Fe / 35 Sn } 5Hgo	Self Heat		2242	

[ITEM FOUND IN BOOK]



2100 green Iwo 20 all fines in
the Lump just as it came from
factory - Crushed to make more
fines - 9000 New Cobalt received
1/10000. thick, Second Wrought 15 B
~~and~~ Chopped with shears, strips.
40/1000 wide -
4500 Illuvase in Tin Can just as
came from Emerson, thick as
glass but ~~very~~ pretty stiff. ~~[illegible]~~
Cobalt plated tubes, plated good -
1/4 of 1000 on a side - Burns inside
rings on white packing - 50 Double
Tamps - 3 lb cut 5" chop square end right
Cup chokes on end - new head
used - To be soaked in ~~pure~~ 200 cc water per
tube containing 1 cc of 21% KOH, soak
24 hours at about 100 fahr, change
water after 12 hours because it heats
the potash in it - End of 24 hours